

ELEVENTH EDITION.

ILLUSTRATED CATALOGUE

OF

Kindergarten Material, Primary Aids,



MAPS, GLOBES, AND CHARTS,

School Furniture AND Blackboards.

BOSTON, MASS.

J. L. HAMMETT, 352 WASHINGTON STREET.

1895-1896.

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**E**ACH item of any importance in this catalogue is carefully indexed on the opposite page, so that it can be found with little trouble. Customers should not mention the page numbers, however, when ordering goods, because they vary in different editions.

Remember that when \* is used before the price of an article it cannot be sent by mail, but must go by express at the expense of the buyer. Those prices without \* and having postage added will be sent by mail, when so ordered **on receipt of price and postage**, but all goods forwarded through the mails are sent at the risk of the people to whom they are addressed, and if any are lost they will not be duplicated by us. When enough money is sent to cover the price of the goods but not sufficient for postage we forward by express. If over-payments are made we return the balance immediately.

**Goods ordered without remittance accompanying, by people unknown to us, will be sent C. O. D.**

We pack all goods very carefully, but cannot be responsible for loss or damage which may occur to them after leaving our hands. In making payments large amounts are most safely sent by postoffice or express money orders, or by New York or Boston drafts. We will accept payments for sums less than one dollar in United States postage stamps of any denomination.

 We do not send out material or books "on approval after examination," and positively decline to exchange goods, except for some fault on our part. In the latter case the error will be corrected at our expense, provided it is reported to us before the goods are returned, so that we may indicate the disposal to be made of them.

### **SPECIAL DIRECTIONS FOR KINDERGARTNERS.**

Each item of kindergarten material is numbered in bold type, on the left-hand side of the page. Always use this number when ordering material, so as to avoid mistakes. Notice exactly what goods are called for by the number you use. If, for instance, you order "One of No. 191," you ask for 12 cards, not 1 card; and if the order is "Twelve of 191," it requires 144 cards and not 12. In some cases a number calls for a single piece, and in others for a package of 12, 50 or 100 pieces. Care on this point will prevent many unpleasant errors. If you order weaving and do not give the size of mats and width of strips we cannot know what you want. If you order sticks and do not specify plain or colored, there is an even chance that we shall not suit you. But if you order regular stock by marginal numbers, and colors by the numbers or symbols in our sample books, all will be clear.



## FIRST GIFT.

Six soft rubber balls about  $1\frac{1}{2}$  inch in diameter, covered by a crochet or netting of worsted.

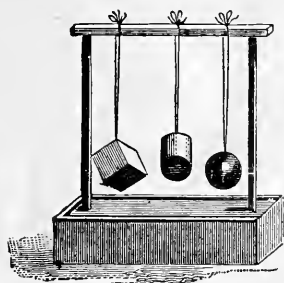
The coverings are in the six colors, red, yellow, blue, green, orange, and purple, one color for each ball. A thread of the covering is attached to each ball, by which to suspend it.

**1** First Gift, a set of 6 balls in a polished cherry box, with sliding cover, containing crossbeam and supports. . . . Price, \$1.00; postage, \$0.11

As all rubber balls sooner or later become hard and unyielding, many kindergartners prefer a yarn or hair ball covered with the colored worsteds, which has led to keeping constantly in stock besides the above:—

**1 a** First Gift, six balls, worsted and hair,  $1\frac{3}{4}$  inch, in pasteboard box. . . . Price, \$1.25; postage, \$0.10

**1 b** First Gift, large balls,  $2\frac{1}{4}$  inches in diameter . . . Price, \$1.50; postage, \$0.12



## SECOND GIFT.

This gift consists of a standard 2-inch sphere, cylinder and cube, provided with the necessary staples and holes for suspending them in the air, an additional plain cube, two rattan axles for revolving the forms and two posts and a cross beam for suspending them; all put up in a polished cherry box, properly constructed for supporting the posts and beam.

The suggestions for using the Second Gift found in "Paradise of Childhood" are considered very valuable by kindergartners.

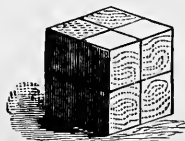
**3** Second Gift, one set in box, as above, . . . Price, \$0.60; Postage, \$0.23

## SECOND GIFT IN BULK.

The necessary expense of this gift when each set is placed in a separate box has suggested, as an economical measure, the packing of the forms in bulk, and we have accordingly prepared sets of twelve each, spheres, cubes and cylinders, packed in a neat, polished wooden box.

The forms in this set are provided with the staples and holes as in the independent sets, but there are no sticks, and there is no extra plain cube. If the sticks for rotating are wanted, any required number will be supplied at small expense.

**3 a** Box containing 12 of each form, . . . . . Price, \$3.50  
Rattan axles, per dozen, . . . . . Post paid, .05

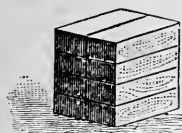


## THIRD GIFT.

. Eight rock-maple cubes one inch square, in a neat, strong, varnished cherry box, with sliding cover.

Directions for use in "Paradise of Childhood," with five full quarto pages of lithographic plates, containing 112 figures.

**4** Third Gift, one box, as above, . . . . . Price, \$0.20; Postage, \$0.08



## FOURTH GIFT.

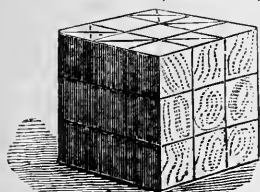
A two-inch cube consisting of eight oblong blocks of rock-maple, each two inches long, one inch wide and one-half inch thick.

In neat, strong varnished cherry box, with sliding cover.

Directions for use in "Paradise of Childhood."

- 5 Fourth Gift, one box, as above.

Price, \$0.20; postage, \$0.08



## FIFTH GIFT.

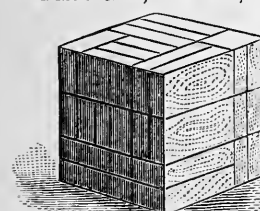
A three-inch cube consisting of twenty-one whole one-inch cubes, six half cubes and twelve quarter cubes.

In varnished cherry box, with sliding cover.

Directions for use in "Paradise of Childhood."

- Fifth Gift, one box, as above.

Price, \$0.40; postage, \$0.20



## SIXTH GIFT.

A three-inch cube consisting of eighteen blocks, two inches long by one inch wide and half an inch thick, and three similar blocks divided lengthwise and three crosswise.

Directions for use in "Paradise of Childhood."

- 7 Sixth Gift, one box, as above.

Price, \$0.40; postage, \$0.20

- 8 100 cubes of the Third Gift, paper box.

Price, \*\$1.50

- 9 100 good cubes of hard wood, same style and size as Third Gift, but not so perfect in every particular.

Price, \*\$1.00

Our blocks for the Third, Fourth, Fifth and Sixth Gifts are made with the greatest care from well-seasoned, hard-maple lumber, thoroughly baked in a heated kiln and worked to accurate steel gauges.

## FIFTH GIFT B.

A three-inch cube consisting of twelve whole one-inch cubes, eight similar cubes from each of which a quarter-cylinder has been removed at one corner, three one-inch cubes each divided diagonally into quarters and six one-inch cylinders divided into halves. It

has been made and used in Germany for a long time. This gift combines cylindrical with cubical forms and is in the line of the further development of the series of building boxes which Fröbel evidently intended to carry out, from the memoranda which he left.

- 10 Fifth Gift B, one box, as above.

Price, \$0.40; postage, \$0.20



## SEVENTH GIFT.

This gift consists of tablets in the natural colors of the wood, half light and half dark, with finely-polished surfaces. The natural woods furnish the contrast necessary to produce the designs in light and shade, and limit the thought of the child to form, without confusing the mind with the additional consideration of color.

After making the designs in light and shade the pupils will be entirely free to exercise their tastes in the selection of colors, which are furnished in great variety in the parquetry papers. This plan secures a harmony when various forms of tablets are brought together in one design which is impossible when different colors are used in the several forms, and seems to much more ac-

ceptably meet the wants of all who have given the matter a fair trial than anything before offered.

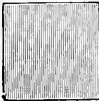






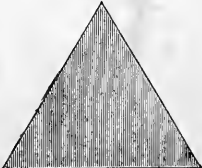
We wish to call particular attention to the form of our tablet E, scalene triangle, which is different from the corresponding triangle used by some prominent kindergartners. Our tablet is one-half the equilateral triangle, and its angles are,  $30^\circ$ ,  $60^\circ$  and  $90^\circ$ , all standard and very common angles, which should be made familiar to every child.

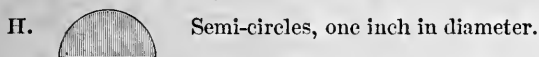
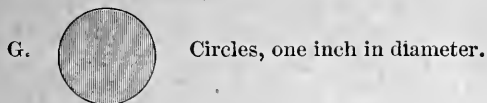
American Kindergartners have long since acknowledged the mathematical superiority of this over the German form first adopted.

To any one interested we will mail a three-page explanation of our reasons for making the change in the form of this tablet, many years ago. This little pamphlet is intended to illustrate the practical value of the Seventh Gift and indicate the best methods of using it.

Having adopted the  $60^\circ$  and  $30^\circ$  scalene, an equilateral large enough to contain two scalenes is useful, in order to demonstrate the derivation of the scalene from the equilateral. When all the forms of tablets are to be combined in designs for parquetry work the small equilateral comes into use as symmetrical in size with the other tablets.

In the preceding gifts the child has dealt with solids, but the tablets represent surfaces, and hence are made as thin as is consistent with strength and durability.

			Price. Postage.	
12 A		Eight squares one inch on each side,		
		wooden box, . . . . .	\$0.25	\$0.02
13 A 2.		Sixteen squares, as above, . . . . .	.35	.03
14 B.		Sixty-four half squares, one inch on each leg, wooden box, . . . . .	.50	.03
15 C.		Twenty-four equilateral triangles, one inch on each side, wooden box, . . . . .	.40	.02
16 C 2.		Fifty-four equilateral triangles, as above, . . . . .	.50	.03
17 D.		Sixty-four obtuse-angled triangles, each short side one inch. Acute angles, $30^\circ$ ; wooden box, . . . . .	.60	.03
18 E.		Fifty-six right-angled triangles, $30^\circ$ and $60^\circ$ ; short side one inch, wooden box, . . . . .	.60	.04
19 F.		Nine large equilateral triangles, two inches on each side, wooden box, . . . . .	.30	.03



G and H are not boxed in sets, but are sold in bulk, as ordered. They are added to the list at the request of those kindergartners who believe that the gift should include the circular plane and its divisions, as well as the rectilinear planes.

### TABLETS IN BULK.

As a measure of economy the majority of kindergartners are ordering their tablets in bulk, and for their benefit we have prepared finely polished wooden boxes, uniform in size, which will hold five hundred or more tablets, thrown in loosely.

We make boxes about eight inches square and two inches deep, with a central partition, for those tablets of which only a small number are used, thus providing for two forms in one box.

	Price.
20 One box, without partition, . . . . .	*\$0.25
21 One box, with partition, . . . . .	* .25

When tablets and boxes are ordered at the same time we will put up the tablets in the boxes at the combined price of the boxes and tablets in bulk.

22 100 tablets, in bulk, any form, except F, . . . . .	Price, \$0.60; Postage, \$0.03
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Tablets F, double the price of the other forms.

### SEVENTH GIFT IN PAPER-BOARD.

The tablets of the Seventh Gift are also made in heavy and very solid paper-board, in light and dark shades, one hundred of each form in a separate paper box.

23 a Seventh Gift, one complete set, paper tablets, as above, . . . . .	Price, \$1.00; Postage, \$0.12
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Directions with more than 200 lithographed diagrams for this gift in "Paradise of Childhood."

### KINDERGARTEN PARQUETRY.

Several years since we devised a new occupation in connection with the Seventh Gift which we termed Kindergarten Parquetry, and which has been received with universal favor by leading kindergartners. The colored papers of the parquetry bear the same relation to the use of the tablets that painting does to drawing. The designs in light and shade are made with the tablets, and the colors are introduced by the use of the parquetry papers. The colored papers used in this occupation are *cut accurately* to the forms and sizes of the tablets in the Seventh Gift. The use of papers inaccurately cut would be positively detrimental to the child. We sell both gummed and ungummed papers, but the latter seem to be preferred by a majority of kindergartners, as the work of gumming the papers neatly affords the best possible practice in manual dexterity. But for use in the primary school and at home, where less supervision is available than in the kindergarten, the gummed papers are the best. The backs of these papers should always be moistened with a brush or sponge, NEVER WITH THE MOUTH.

Two kinds of paper are used in this material, which we term for convenience "COATED PAPERS," and "ENGINE COLORED PAPERS." In the latter the colors are mixed with the pulp of the paper, in the process of manufacture, and cannot be rubbed off by moisture or otherwise, but the standard educational colors of the

coated papers are not possible in the engine colored, although some of the tints are very beautiful.

The parquetry material is put up in the following packages:—

### PARQUETRY PAPERS IN BOXES.

EACH BOX CONTAINS 1000 PIECES, ASSORTED FORMS.

		Price, per box.	Postage.
<b>2000</b>	Ungummed engine colored, assorted colors, . . . . .	\$0.15	\$0.04
<b>2001</b>	Gummed engine colored, assorted colors, . . . . .	.35	.05
<b>2002</b>	Ungummed coated, six colors, with one tint and one shade of each, and grays and black, . . . . .	.20	.04
<b>2003</b>	Gummed coated, six colors, with one tint and one shade of each, and grays and black, . . . . .	.40	.05

In our line of educational colored papers the colors are indicated by symbols and for convenience the following symbols are used instead of the full names:—

R.—Red.	G.—Green.
O.R.—Orange Red.	B.G.—Blue Green.
R.O.—Red Orange.	G.B.—Green Blue.
O.—Orange.	B.—Blue.
Y.O.—Yellow Orange.	V.B.—Violet Blue.
O.Y.—Orange Yellow.	B.V.—Blue Violet.
Y.—Yellow.	V.—Violet.
G.Y.—Green Yellow.	R.V.—Red Violet.
Y.G.—Yellow Green.	V.R.—Violet Red.

T indicates tint and S indicates shade. The numerals designate the tints and shades, No. 1, indicating those which are nearest the standard.

In the list of parquetry papers in envelopes, the assortments of colors referred to are as follows:—

#### ASSORTMENT NO. 1.

R.—R.T. 1.—R.T. 2.—R.S. 1.—R.S. 2.—G.—G.T. 1.—G.T. 2.—G.S. 1.—G.S. 2

#### ASSORTMENT NO. 2.

O.—O.T. 1.—O.T. 2.—O.S. 1.—O.S. 2.—B.—B.T. 1.—B.T. 2.—B.S. 1.—B.S. 2.

#### ASSORTMENT NO. 3.

Y.—Y.T. 1.—Y.T. 2.—Y.S. 1.—Y.S. 2.—V.—V.T. 1.—V.T. 2.—V.S. 1.—V.S. 2.

#### ASSORTMENT NO. 4.

O.R.—O.R.T.—O.R.S.—Y.O.—Y.O.T.—Y.O.S.—Y.G.—Y.G.T.—Y.G.S.  
B.G.—B.G.T.—B.G.S.—V.B.—V.B.T.—V.B.S.—V.R.—V.R.T.—V.R.S.

#### ASSORTMENT NO. 5.

R.O.—R.O.T.—R.O.S.—O.Y.—O.Y.T.—O.Y.S.—G.Y.—G.Y.T.—G.Y.S.  
G.B.—G.B.T.—G.B.S.—B.V.—B.V.T.—B.V.S.—R.V.—R.V.T.—R.V.S.

#### ASSORTMENT NO. 6a.

R.—O.—Y.—G.—B.—V.

#### ASSORTMENT NO. 6b

Is made up of assortments No. 1, No. 2 and No. 3 (as given above) with the addition of grays, black and white.

#### ASSORTMENT NO. 7.

Grays, Black and White.

## PARQUETRY PAPERS IN LARGE ENVELOPES.

EACH ENVELOPE CONTAINS 1000 PIECES OF ONE FORM.

		Price, per envelope. Postage.	
<b>2004</b>	Ungummed engine colored, assorted colors, Squares, . . .	\$0.12	\$0.02
<b>2005</b>	Gummed engine colored, assorted colors, Squares, . . .	.30	.05
<b>2006</b>	Ungummed coated, Assortment No. 1, Squares, . . .	.18	.02
<b>2007</b>	Ungummed coated, Assortment No. 2, Squares, . . .	.18	.02
<b>2008</b>	Ungummed coated, Assortment No. 3, Squares, . . .	.18	.02
<b>2009</b>	Ungummed coated, Assortment No. 4, Squares, . . .	.18	.02
<b>2010</b>	Ungummed coated, Assortment No. 5, Squares, . . .	.18	.02
<b>2011a</b>	Ungummed coated, Assortment No. 6a, Squares, . . .	.18	.02
<b>2011b</b>	Ungummed coated, Assortment No. 6b, Squares, . . .	.18	.02
<b>2012</b>	Ungummed coated, Assortment No. 7, Squares, . . .	.18	.02
<b>2013</b>	Gummed coated, Assortment No. 1, Squares, . . .	.35	.03
<b>2014</b>	Gummed coated, Assortment No. 2, Squares, . . .	.35	.03
<b>2015</b>	Gummed coated, Assortment No. 3, Squares, . . .	.35	.03
<b>2016</b>	Gummed coated, Assortment No. 4, Squares, . . .	.35	.03
<b>2017</b>	Gummed coated, Assortment No. 5, Squares, . . .	.35	.03
<b>2018a</b>	Gummed coated, Assortment No. 6a, Squares, . . .	.35	.03
<b>2018b</b>	Gummed coated, Assortment No. 6b, Squares, . . .	.35	.03
<b>2019</b>	Gummed coated, Assortment No. 7, Squares, . . .	.35	.03
<b>2020</b>	Ungummed engine colored, assorted colors, Half-squares, . . .	.12	.02
<b>2021</b>	Gummed engine colored, assorted colors, Half-squares, . . .	.30	.03
<b>2022</b>	Ungummed coated, Assortment No. 1, Half-squares, . . .	.18	.02
<b>2023</b>	Ungummed coated, Assortment No. 2, Half-squares, . . .	.18	.02
<b>2024</b>	Ungummed coated, Assortment No. 3, Half-squares, . . .	.18	.02
<b>2025</b>	Ungummed coated, Assortment No. 4, Half-squares, . . .	.18	.02
<b>2026</b>	Ungummed coated, Assortment No. 5, Half-squares, . . .	.18	.02
<b>2027a</b>	Ungummed coated, Assortment No. 6a, Half-squares, . . .	.18	.02
<b>2027b</b>	Ungummed coated, Assortment No. 6b, Half-squares, . . .	.18	.02
<b>2028</b>	Ungummed coated, Assortment No. 7, Half-squares, . . .	.18	.02
<b>2029</b>	Gummed coated, Assortment No. 1, Half-squares, . . .	.35	.03
<b>2030</b>	Gummed coated, Assortment No. 2, Half-squares, . . .	.35	.03
<b>2031</b>	Gummed coated, Assortment No. 3, Half-squares, . . .	.35	.03
<b>2032</b>	Gummed coated, Assortment No. 4, Half-squares, . . .	.35	.03
<b>2033</b>	Gummed coated, Assortment No. 5, Half-squares, . . .	.35	.03
<b>2034a</b>	Gummed coated, Assortment No. 6a, Half-squares, . . .	.35	.03
<b>2034b</b>	Gummed coated, Assortment No. 6b, Half-squares, . . .	.35	.03
<b>2035</b>	Gummed coated, Assortment No. 7, Half-squares, . . .	.35	.03
<b>2036</b>	Ungummed engine colored, assorted colors, Equi. Tri., . . .	.12	.02
<b>2037</b>	Gummed engine colored, assorted colors, Equi. Tri., . . .	.30	.03
<b>2038</b>	Ungummed coated, Assortment No. 1, Equi. Tri., . . .	.18	.02
<b>2039</b>	Ungummed coated, Assortment No. 2, Equi. Tri., . . .	.18	.02
<b>2040</b>	Ungummed coated, Assortment No. 3, Equi. Tri., . . .	.18	.02
<b>2041</b>	Ungummed coated, Assortment No. 4, Equi. Tri., . . .	.18	.02
<b>2042</b>	Ungummed coated, Assortment No. 5, Equi. Tri., . . .	.18	.02
<b>2043a</b>	Ungummed coated, Assortment No. 6a, Equi. Tri., . . .	.18	.02
<b>2043b</b>	Ungummed coated, Assortment No. 6b, Equi. Tri., . . .	.18	.02
<b>2044</b>	Ungummed coated, Assortment No. 7, Equi. Tri., . . .	.18	.02
<b>2045</b>	Gummed coated, Assortment No. 1, Equi. Tri., . . .	.35	.03
<b>2046</b>	Gummed coated, Assortment No. 2, Equi. Tri., . . .	.35	.03
<b>2047</b>	Gummed coated, Assortment No. 3, Equi. Tri., . . .	.35	.03

## PARQUETRY PAPERS.

		Price, per envelope.	Postage.
2048	Gummed coated, Assortment No. 4, Equi. Tri., . .	\$0.35	\$0.03
2049	Gummed coated, Assortment No. 5, Equi. Tri., . .	.35	.03
2050a	Gummed coated, Assortment No. 6a, Equi. Tri., . .	.35	.03
2050b	Gummed coated, Assortment No. 6b, Equi. Tri., . .	.35	.03
2051	Gummed coated, Assortment No. 7, Equi. Tri., . .	.35	.03
2052	Ung'md engine col'rd, assorted colors, Obtuse-angled Tri.,	.12	.02
2053	Gum'd engine col'rd, assorted colors, Obtuse-angled Tri.,	.30	.03
2054	Ungummed coated, Assortment No. 1, Obtuse-angled Tri.,	.18	.02
2055	Ungummed coated, Assortment No. 2, Obtuse-angled Tri.,	.18	.02
2056	Ungummed coated, Assortment No. 3, Obtuse-angled Tri.,	.18	.02
2057	Ungummed coated, Assortment No. 4, Obtuse-angled Tri.,	.18	.02
2058	Ungummed coated, Assortment No. 5, Obtuse-angled Tri.,	.18	.02
2059a	Ungummed coated, Assortment No. 6a, Obtuse-angled Tri.,	.18	.02
2059b	Ungummed coated, Assortment No. 6b, Obtuse-angled Tri.,	.18	.02
2060	Ungummed coated, Assortment No. 7, Obtuse-angled Tri.,	.18	.02
2061	Gummed coated, Assortment No. 1, Obtuse-angled Tri., .	.35	.03
2062	Gummed coated, Assortment No. 2, Obtuse-angled Tri., .	.35	.03
2063	Gummed coated, Assortment No. 3, Obtuse-angled Tri., .	.35	.03
2064	Gummed coated, Assortment No. 4, Obtuse-angled Tri., .	.35	.03
2065	Gummed coated, Assortment No. 5, Obtuse-angled Tri., .	.35	.03
2066a	Gummed coated, Assortment No. 6a, Obtuse-angled Tri.,	.35	.03
2066b	Gummed coated, Assortment No. 6b, Obtuse-angled Tri.,	.35	.03
2067	Gummed coated, Assortment No. 7, Obtuse-angled Tri., .	.35	.03
2068	Ungummed engine colored, assorted colors, Scalene Tri., .	.12	.02
2069	Gummed engine colored, assorted colors, Scalene Tri., .	.30	.03
2070	Ungummed coated, Assortment No. 1, Scalene Tri., .	.18	.02
2071	Ungummed coated, Assortment No. 2, Scalene Tri., .	.18	.02
2072	Ungummed coated, Assortment No. 3, Scalene Tri., .	.18	.02
2073	Ungummed coated, Assortment No. 4, Scalene Tri., .	.18	.02
2074	Ungummed coated, Assortment No. 5, Scalene Tri., .	.18	.02
2075a	Ungummed coated, Assortment No. 6a, Scalene Tri., .	.18	.02
2075b	Ungummed coated, Assortment No. 6b, Scalene Tri., .	.18	.02
2076	Ungummed coated Assortment No. 7, Scalene Tri., .	.18	.02
2077	Gummed coated, Assortment No. 1, Scalene Tri., . .	.35	.03
2078	Gummed coated, Assortment No. 2, Scalene Tri., . .	.35	.03
2079	Gummed coated, Assortment No. 3, Scalene Tri., . .	.35	.03
2080	Gummed coated, Assortment No. 4, Scalene Tri., . .	.35	.03
2081	Gummed coated, Assortment No. 5, Scalene Tri., . .	.35	.03
2082a	Gummed coated, Assortment No. 6a, Scalene Tri., . .	.35	.03
2082b	Gummed coated, Assortment No. 6b, Scalene Tri., . .	.35	.03
2083	Gummed coated, Assortment No. 7, Scalene Tri., . .	.35	.03
2084	Ungummed engine colored, assorted colors, Rhombus, .	.12	.02
2085	Gummed engine colored, assorted colors, Rhombus, .	.30	.03
2086	Ungummed coated, Assortment No. 1, Rhombus, . .	.18	.02
2087	Ungummed coated, Assortment No. 2, Rhombus, . .	.18	.02
2088	Ungummed coated, Assortment No. 3, Rhombus, . .	.18	.02
2089	Ungummed coated, Assortment No. 4, Rhombus, . .	.18	.02
2090	Ungummed coated, Assortment No. 5, Rhombus, . .	.18	.02
2091a	Ungummed coated, Assortment No. 6a, Rhombus, . .	.18	.02
2091b	Ungummed coated, Assortment No. 6b, Rhombus, . .	.18	.02
2092	Ungummed coated, Assortment No. 7, Rhombus, . .	.18	.02
2093	Gummed coated, Assortment No. 1, Rhombus, . .	.35	.03



		Price, per envelope. Postage.	
2094	Gummed coated, Assortment No. 2, Rhombus, . . .	\$0.35	\$0.03
2095	Gummed coated, Assortment No. 3, Rhombus, . . .	.35	.03
2096	Gummed coated, Assortment No. 4, Rhombus, . . .	.35	.03
2097	Gummed coated, Assortment No. 5, Rhombus, . . .	.35	.03
2098a	Gummed coated, Assortment No. 6 a, Rhombus, . . .	.35	.03
2098b	Gummed coated, Assortment No. 6 b, Rhombus, . . .	.35	.03
2099	Gummed coated, Assortment No. 7, Rhombus, . . .	.35	.03
2100	Ungummed engine colored, assorted colors, Oblongs, . . .	.12	.02
2101	Gummed engine colored, assorted colors, Oblongs, . . .	.30	.03
2102	Ungummed coated, Assortment No. 1, Oblongs, . . .	.18	.02
2103	Ungummed coated, Assortment No. 2, Oblongs, . . .	.18	.02
2104	Ungummed coated, Assortment No. 3, Oblongs, . . .	.18	.02
2105	Ungummed coated, Assortment No. 4, Oblongs, . . .	.18	.02
2106	Ungummed coated, Assortment No. 5, Oblongs, . . .	.18	.02
2107a	Ungummed coated, Assortment No 6a, Oblongs, . . .	.18	.02
2107b	Ungummed coated, Assortment No. 6b, Oblongs, . . .	.18	.02
2108	Ungummed coated, Assortment No 7, Oblongs, . . .	.18	.02
2109	Gummed coated, Assortment No. 1, Oblongs, . . .	.35	.03
2110	Gummed coated, Assortment No. 2, Oblongs, . . .	.35	.03
2111	Gummed coated, Assortment No. 3, Oblongs, . . .	.35	.03
2112	Gummed coated, Assortment No. 4, Oblongs, . . .	.35	.03
2113	Gummed coated, Assortment No. 5, Oblongs, . . .	.35	.03
2114a	Gummed coated, Assortment No. 6a, Oblongs, . . .	.35	.03
2114b	Gummed coated, Assortment No. 6b, Oblongs, . . .	.35	.03
2115	Gummed coated, Assortment No. 7, Oblongs, . . .	.35	.03
2116	Ungummed coated, Assortment No. 1, Circles, . . .	.18	.02
2117	Ungummed coated, Assortment No. 2, Circles, . . .	.18	.02
2118	Ungummed coated, Assortment No. 3, Circles, . . .	.18	.02
2119	Ungummed coated, Assortment No. 4, Circles, . . .	.18	.02
2120	Ungummed coated, Assortment No. 5, Circles, . . .	.18	.02
2121a	Ungummed coated, Assortment No. 6a, Circles, . . .	.18	.02
2121b	Ungummed coated, Assortment No. 6b, Circles, . . .	.18	.02
2122	Ungummed coated, Assortment No. 7, Circles, . . .	.18	.02
2123	Gummed coated, Assortment No. 1, Circles, . . .	.35	.03
2124	Gummed coated, Assortment No. 2, Circles, . . .	.35	.03
2125	Gummed coated, Assortment No. 3, Circles, . . .	.35	.03
2126	Gummed coated, Assortment No. 4, Circles, . . .	.35	.03
2127	Gummed coated, Assortment No. 5, Circles, . . .	.35	.03
2128a	Gummed coated, Assortment No. 6a, Circles, . . .	.35	.03
2128b	Gummed coated, Assortment No. 6b, Circles, . . .	.35	.03
2129	Gummed coated, Assortment No. 7, Circles, . . .	.35	.03
2130	Ungummed coated, Assortment No. 1, Half-circles, . . .	.18	.02
2131	Ungummed coated, Assortment No. 2, Half-circles, . . .	.18	.02
2132	Ungummed coated, Assortment No. 3, Half-circles, . . .	.18	.02
2133	Ungummed coated, Assortment No. 4, Half-circles, . . .	.18	.02
2134	Ungummed coated, Assortment No. 5, Half-circles, . . .	.18	.02
2135a	Ungummed coated, Assortment No. 6a, Half-circles, . . .	.18	.02
2135b	Ungummed coated, Assortment No. 6b, Half-circles, . . .	.18	.02
2136	Ungummed coated, Assortment No. 7, Half-circles, . . .	.18	.02
2137	Gummed coated, Assortment No. 1, Half-circles, . . .	.35	.03
2138	Gummed coated, Assortment No. 2, Half-circles, . . .	.35	.03
2139	Gummed coated, Assortment No. 3, Half-circles, . . .	.35	.03

		Price per envelope.	Postage.
2140	Gummed coated, Assortment No. 4, Half-circles,	. . . \$0.35	\$0.03
2141	Gummed coated, Assortment No. 5, Half-circles,	. . . .35	.03
2142a	Gummed coated, Assortment No. 6a, Half-circles,	. . . .35	.03
2142b	Gummed coated, Assortment No. 6b, Half-circles,	. . . .35	.03
2143	Gummed coated, Assortment No. 7, Half-circles,	. . . .35	.03

The packages of ENGINE COLORED PAPERS, ASSORTED COLORS, comprise the following numbers in the sample book:—

1 A—2 A—3 A—4 A—5 A—6 A.

1—2—3—4—5—6.

1 B—2 B—3 B—4 B—5 B—6 B.

7—8—9—10—11—12—13—14—15—16.

## PARQUETRY PAPERS IN SMALL ENVELOPES.

Each envelope contains one form and one color only. For the accomodation of those who wish to obtain small quantities of the six colors we furnish the following packages:—

		Price, per envelope.	Postage.
2150	100 Pieces, ungummed coated,	. . . . \$0.03	\$0.01
2151	100 Pieces, gummed coated,	. . . . .05	.01
2152	200 Pieces, ungummed coated,	. . . . .05	.01
2153	200 Pieces, gummed coated,	. . . . .08	.01
2154	500 Pieces, ungummed coated,	. . . . .11	.02
2155	500 Pieces, gummed coated,	. . . . .18	.02

## MOUNTING SHEETS FOR PARQUETRY.

Most kindergartners regard guide lines in one-inch squares as indispensable in forming geometrical figures by the laying of tablets, sticks or lentils. There is also a demand for ruled mounting sheets for parquetry and paper cutting, paper dots, strips and rings. We offer in response a white Bristol board ruled in one-inch squares and perforated at one end for tying.

Such sheets are better for mounting work than any books, because a little child is much more interested in making a collection of his work by adding sheet after sheet than he can possibly be while merely filling up a book.

The child is given but one sheet of paper at a time. The work having been "laid" on a squared table the designs are duplicated on the paper by pasting. The duplicating of the guide lines of the table on the paper greatly facilitates the work of pasting. The lines train the eye to see things on a square and also teach the necessity of accuracy. As some patterns are arranged around a central point and others around a central square, it is certain that an arrangement will be more in accord with the fitness of things if it is in the center of the sheet rather than to the right or left, or above or below it.

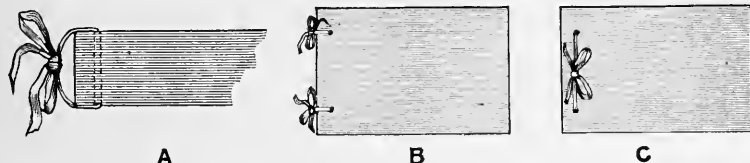
Heretofore we have offered the trade but one style of ruling. But to accomodate these various patterns we now have the sheets ruled in two styles.

Style No. 1 is ruled with a horizontal line and a vertical line crossing each other in the center of the sheet, thus giving a central point.

Style No. 2 is so ruled that the lines form a square in the center of the sheet.

Let the pupil work sharply to the guides till he knows how things ought to be, and then he may try to see how well he can do without the guides. After a sheet has been mounted and is partially dry, it should be pressed between two

pieces of blotting paper, by laying on it a heavy book or other flat object. In case the mounting is only partly done the sheet should be pressed in the same way, so as to secure a flat surface for continuing the work. Care must be taken not to put the work to press while the surface paste is so fresh that it will stick to the blotting paper.



A

B

C

Two or three mounted sheets being prepared, the making of the book begins by looping them together with ribbons, as shown in figure A, which is a sectional view. Each hole should be tied with a loop by itself, (see figure B, which represents a completed book) instead of fastening the sheets with one loop, as indicated in figure C. Sheets may be added from day to day, until the book is too bulky for any further increase.

The designs made with the tablets of the Seventh Gift are reproduced on this mounting paper with parquetry papers. The designs laid with the sticks and rings of the Eighth and Ninth Gifts are reproduced with paper strips and rings, and the designs made with the wooden lentils are reproduced with the square and round paper dots.

### UNRULED MOUNTING SHEETS.

		Price.	Postage.
75	12 leaves, 8 x 8, white Bristol, . . . . .	\$0.12	\$0.05
76	12 leaves, 7 x 7, white Bristol, . . . . .	.08	.04
215	30 leaves, 10 x 10, manilla paper, . . . . .	.25	.10
216	100 leaves, 10 x 10, white Bristol, punched at the back for tying into covers, . . . . .	1.25	.55

### RULED MOUNTING SHEETS.

		Price.	Postage.
79	12 leaves, 7 x 9, white Bristol, Style No. 1 or No. 2, . . .	\$0.10	\$0.05
80	12 leaves, 9 x 11, white Bristol, Style No. 1 or No. 2, . . .	.12	.06

For explanations of Style No. 1 and No. 2 see preceding page.

### MUCILAGE CUPS AND BRUSHES.

		Price.	Postage.
82	12 small glass cups with screw covers, for mucilage or paste, *	\$0.48	
83	12 camel's hair brushes, . . . . .	.30	.02

The glass cups cannot be sent by mail.

## EIGHTH GIFT.

### STICKS FOR STICK LAYING.

This gift consists of wooden sticks, which are cut to various lengths and used to teach numerical proportions, and for producing elementary rectilinear forms, preparatory to drawing.

### PLAIN STICKS.

In this gift we offer a very neat square stick, much preferable to the irregular round stick heretofore used, as it will lie just as placed.

									Price.	Postage.
90	1000	sticks,	5	inches	long,	plain,	.	.	\$0.20	\$0.11
91	1000	"	4	"	"	"	.	.	.18	.09
92	1000	"	3	"	"	"	.	.	.15	.09
93	1000	"	2	"	"	"	.	.	.12	.05
94	1000	"	1	"	"	"	.	.	.08	.03
95	A paper box with 1000 sticks, assorted from 1 in. to 5 inches,								.20	.08
96	A polished wooden box, with five compartments, containing 1500 sticks, assorted lengths from 1 to 5 inches,								*.40	

### COLORED STICKS.

In response to a general demand we offer a full line of colored sticks, which we prepare by a process peculiar to ourselves, and which insures the most beautiful colors.

									Price.	Postage.
97	1000	sticks,	5	inches	long,	6	colors,	.	\$0.35	\$0.11
98	1000	"	4	"	"	"	"	.	.30	.09
99	1000	"	3	"	"	"	"	.	.25	.07
100	1000	"	2	"	"	"	"	.	.20	.05
101	1000	"	1	"	"	"	"	.	.15	.03
102	A paper box with 1000 sticks, assorted lengths from 1 inch to five inches,								.25	.08
103	A polished wooden box with five compartments, containing 1500 sticks, from 1 in. to 5 in. long, 6 colors,								*.60	

In accordance with suggestions in Miss Moore's Manual of Drawing, there is a demand for sticks cut to the diagonals of various figures, and we add several new lengths. When colored sticks are used in the even lengths it is better to order the diagonals in plain wood color.

### COLORED STICKS, DIAGONALS.

									Price.	Postage.
104	1000	sticks,	diagonal	of	5	inch	square,	.	\$0.40	\$0.12
105	1000	"	"	"	4	"	"	.	.35	.12
106	1000	"	"	"	4 x 2	inch	rectangle,	.	.30	.10
98	1000	"	"	"	3	inch	square,	.	.30	.09
107	1000	"	"	"	2	"	"	.	.25	.07
108	1000	"	"	"	2 x 1	inch	rectangle,	.	.20	.06
109	1000	"	"	"	1	inch	square,	.	.15	.04

### PLAIN STICKS, DIAGONALS.

									Price.	Postage.
104W	1000	sticks,	diagonal	of	5	inch	square,	.	\$0.25	\$0.15
105W	1000	"	"	"	4	"	"	.	.20	.12
106W	1000	"	"	"	4 x 2	inch	rectangle,	.	.15	.09
91	1000	"	"	"	3	inch	square,	.	.15	.09
107W	1000	"	"	"	2	"	"	.	.12	.06
108W	1000	"	"	"	2 x 1	inch	rectangle,	.	.12	.05
109W	1000	"	"	"	1	inch	square,	.	.08	.03

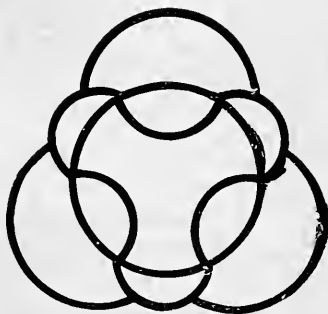
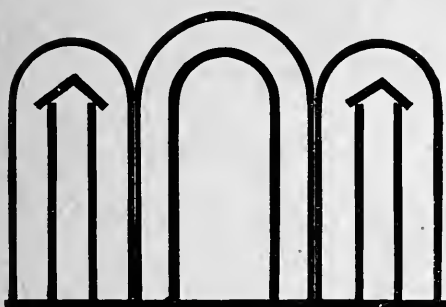
## NINTH GIFT.

### RINGS FOR RING LAYING.

This gift consists of whole, half and quarter rings for laying figures which involve circles. It is a continuation of the Eighth Gift and preparatory to drawing and designing. We furnish whole rings soldered at the joints and also those that are unsoldered. We recommend the former, because a ring is supposed to have no end and the unsoldered ones present two in the hands of children.

- |     |   | Price. | Postage. |
|-----|---|--------|----------|
| 110 | A box containing 12 whole rings each, 1 inch, 1½ inch and 2 inches diameter, 18 half rings each, and 12 quarter rings above sizes, making 126 pieces, with the whole rings neatly soldered, . . . . . | \$0.65 | \$0.15   |
| 111 | Same as above, not soldered, . . . . .  | .50    | .15      |

The sticks of the Eighth Gift and the rings of the Ninth Gift may be used together with very pleasing and profitable results, as shown in the following designs; also see diagrams for Ninth Gift in "Paradise of Childhood."



## MRS. HAILMANN'S GUMMED PARQUETRY RINGS.

The favor accorded parquetry as an occupation supplementing the Seventh Gift is so general as to suggest the application of the same feature to the Eighth and Ninth Gifts, so as to make permanent the designs formed with sticks and rings. Mrs. Hailmann has used this parquetry material made by us, in connection with these gifts, for some years, but the difficulty experienced in producing the rings accurately and economically has prevented their public sale. After much experimenting we are able to manufacture gummed paper rings which are perfectly concentric, at a comparatively reasonable cost.

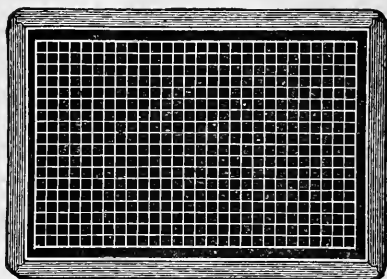
We make, however, only the whole rings, in one, one and a half and two-inch sizes, because the material is so delicate and it is an easy matter to cut them into halves and quarters as wanted. We also make straight strips, which can also be readily cut into lengths of one, two, three or four inches. With this material any of the designs which have been laid with sticks and rings can be readily transferred to mounting paper.

- |     |   | Price. | Postage. |
|-----|---|--------|----------|
| 112 | 1 box, 500 rings, assorted, 1, 1½ and 2 inches, . . . . . | \$0.40 | \$0.04   |
| 115 | 1 box, 300 strips, 5 inches long, . . . . .               | .10    | .04      |

## TENTH GIFT OR OCCUPATION.

### DRAWING.

The materials for this gift are slates and paper, ruled in equal squares, the slates being used first and then the paper. The slates are ruled on one side in perfect quarter-inch squares, with a margin which separates the ruled part from the frame. This method of ruling is a great convenience in drawing from dictation, because with it the child always has a definite corner or margin from which to count. The reverse side of the slate is plain and the frame is protected with braid, so that it is noiseless. In addition to the ruled slates we carry a line, six by nine inches, which are dotted in quarter-inch squares, as some kindergartners prefer a dotted rather than a ruled surface.



MARGINAL RULED SLATE.

									Price.
117	1 slate, 7 x 11, noiseless, marginal ruling,	.	.	.	.	.	.	.	*\$0.20
118	1 slate, 6 x 9, " " " "	.	.	.	.	.	.	.	*.18
118a	1 slate, 6 x 9, " dotted,	.	.	.	.	.	.	.	*.18

## RULED DRAWING PAPER.

Our special drawing paper, made with a pencil surface, is printed from engraved plates in ruled squares, with a margin on each page, a combination which makes a very desirable article.

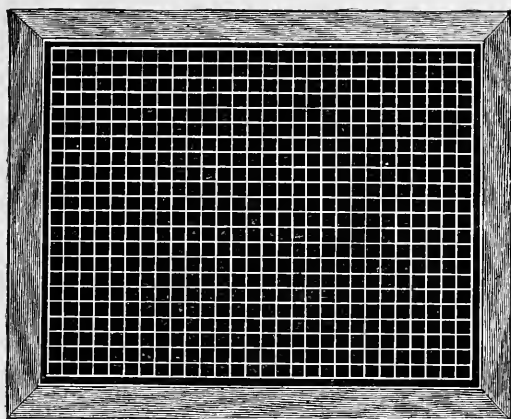
				Price.	Postage.
119	12 drawing books, 8 x 11, 12 leaves, $\frac{1}{4}$ inch squares,	.	.	\$1.00	\$0.32
120	12 drawing books, 8 x 11, 12 leaves, 1-6 inch squares,	.	.	1.00	.32
121	12 drawing books, 8 x 11, 12 leaves, $\frac{1}{2}$ inch squares,	.	.	1.00	.32
122	12 drawing books, 7 x 8, 12 leaves, $\frac{1}{4}$ inch squares,	.	.	.75	.25
123	12 drawing books, 7 x 8, 12 leaves, 1-6 inch squares,	.	.	.75	.25
124	12 drawing books, 7 x 8, 12 leaves, $\frac{1}{2}$ inch squares,	.	.	.75	.25
125	50 sheets paper, 8 x 11, ruled both sides, $\frac{1}{4}$ inch squares,	.	.	.35	.11
126	50 sheets paper, 8 x 11, ruled both sides, 1-6 inch squares,	.	.	.35	.11
127	50 sheets paper, 8 x 11, ruled both sides, $\frac{1}{2}$ inch squares,	.	.	.35	.11
131	25 sheets paper, 17 x 22, ruled both sides, entire surface, $\frac{1}{4}$ inch squares,	.	.	.50	.20
132	25 sheets paper, 17 x 22, ruled both sides, entire surface, 1-6 inch squares,	.	.	.50	.20
133	25 sheets paper, 17 x 22 ruled both sides, entire surface, $\frac{1}{2}$ inch squares,	.	.	.50	.02
134	25 sheets, 17 x 22, ruled one side, entire surface, $\frac{1}{4}$ in. squares,	.	.	.45	.20
135	25 sheets, 17 x 22, ruled one side, entire surface, 1-6 in. squares,	.	.	.45	.20
136	25 sheets, 17 x 22, ruled one side, entire surface, $\frac{1}{2}$ in. squares,	.	.	.45	.20

## DOTTED DRAWING PAPER.

We also have a line of dotted drawing paper and books in half-inch squares, for those kindergartners and primary school teachers who prefer a dotted rather than a netted surface for drawing.

				Price.	Postage.
137	25 sheets dotted paper, 7 x 9,	.	.	\$0.15	\$0.08
138	12 books, 7 x 9, 12 leaves,	.	.	1.00	.32

Samples of our drawing paper will be mailed free to any kindergartner or primary school teacher on application.



### COMBINATION METALLIC BLACKBOARD.

This board has a slated surface on a metal ground, and its white metallic lines are finer and more durable than any which can be painted on a blackboard. Chalk will not cling to the painted lines and they are a fruitful source of imperfections in the drawing. For this reason our metallic board is particularly recommended by kindergartners, after several years of trial. The board is framed in ash and both sides are slated. One side is ruled in one-inch squares, with a margin, the reverse being left plain for general work.

139 One combination metallic blackboard, 24 x 30, inside, . Price, \*\$3.50

### ELEVENTH GIFT OR OCCUPATION.

#### PERFORATING.

			Price.	Postage.
140	50 sheets, 8 x 11, ruled one side, $\frac{1}{4}$ in. squares, margin,		\$0.25	\$0.11
141	50 " 8 x 11, ruled one side, $\frac{1}{2}$ in. squares, margin, .		.25	.11
142	50 " 8 x 11, ruled one side, $\frac{1}{2}$ in. squares, margin, .		.25	.11
143	50 " heavy paper, 7 $\frac{1}{2}$ x 10, plain, . . . . .		.20	.12
144	50 cards, 4 x 4 in. six colors netted, $\frac{3}{8}$ in. squares, margin,		.25	.07
145	50 " 4 x 4 in. six colors netted, $\frac{1}{4}$ in. squares, margin,		.25	.07
145a	50 " 4 x 4 in. white, netted, $\frac{1}{4}$ inch squares, margin, .		.25	.07
145b	50 " 4 x 4 in. white, netted, $\frac{3}{8}$ inch squares, margin, .		.25	.07
Bristol-board, entire surface ruled one side.				
146	25 sheets white, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ , $\frac{1}{4}$ inch squares, no margin, . .		.15	.08
147	25 " " 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ , $\frac{1}{2}$ inch squares, no margin, . .		.15	.08
148	25 " " 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ , $\frac{1}{2}$ inch squares, no margin, . .		.15	.08
149	25 " tinted, ast'd tints, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ , $\frac{1}{4}$ in. squares, no margin,		.15	.08
150	25 " " ast'd tints, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ , $\frac{1}{2}$ in. squares, no margin,		.15	.08
151	25 " " ast'd tints, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$ , $\frac{1}{2}$ in. squares, no margin,		.15	.08
152	25 " white, 7 x 9 inches, $\frac{1}{4}$ inch squares, no margin, .		.25	.08
153	25 " " 7 x 9 inches, $\frac{1}{2}$ inch squares, no margin, .		.25	.08
154	25 " " 7 x 9 inches, $\frac{1}{2}$ inch squares, no margin, .		.25	.08
155	25 " tinted, 7 x 9 inches, $\frac{1}{4}$ inch squares, no margin, .		.25	.08
156	25 " " 7 x 9 inches, $\frac{1}{2}$ inch squares, no margin, .		.25	.08

							Price.	Postage.
157	25	sheets tinted, 7 x 9 inches, $\frac{1}{8}$ inch squares, no margin,	.	.	.	.	\$0.25	\$0.08
158	25	" white, $5\frac{1}{2}$ x $7\frac{1}{2}$ , $\frac{1}{4}$ inch, with margin,	.	.	.	.	.20	.08
159	25	" " $5\frac{1}{2}$ x $7\frac{1}{2}$ , $\frac{1}{8}$ " " " . . . .	.	.	.	.	.20	.08
161	25	" tinted, $5\frac{1}{2}$ x $7\frac{1}{2}$ , $\frac{1}{4}$ " " " . . . .	.	.	.	.	.20	.08
161a	25	" " $5\frac{1}{2}$ x $7\frac{1}{2}$ , $\frac{1}{8}$ inch, with margin,	.	.	.	.	.20	.08
163	25	" white, 7 x 9, $\frac{1}{4}$ " " " . . . .	.	.	.	.	.35	.12
164	25	" " 7 x 9, $\frac{1}{8}$ " " " . . . .	.	.	.	.	.35	.12
166	25	" tinted, 7 x 9, $\frac{1}{4}$ " " " . . . .	.	.	.	.	.35	.12
167	25	" " 7 x 9, $\frac{1}{8}$ " " " . . . .	.	.	.	.	.35	.12
169	25	" white plain, not ruled, 7 x 9 inches,	.	.	.	.	.25	.12
170	25	" tinted plain, not ruled, 7 x 9 inches,	.	.	.	.	.25	.12

To any one requiring these tinted cards we will send samples of tints numbered, from which to order.

							Price.	Postage.
171	12	perforating needles, handles, 2 inches long,	.	.	.	.	\$0.35	\$0.02
172	1	perforating needle, handle, 2 inches long,	.	.	.	.	.03	.02

Unless otherwise ordered we send our No. 1 size perforating needle, which is made specially strong, and of low temper, for the use of the small children who may break a finer instrument. For finer work with older children and training classes, we have Nos. 6 and 8, corresponding in size with the same numbers of sewing needles, and in these two sizes of needles we furnish handles three inches long when so ordered, but the two-inch handles will be sent in all cases unless the longer ones are designated.

							Price.	Postage.
173	12	perforating cushions,	.	.	.	.	\$1.50	\$0.58
174	1	perforating cushion,	.	.	.	.	.13	.05

The perforating cushions are made of extra heavy and fine felt with strong card-board backs.

## TWELFTH GIFT OR OCCUPATION.

### EMBROIDERY.

There is no part of the kindergarten course which gives the children more real pleasure than the embroidery, which can be carried on indefinitely. At first their little hands have trouble in managing the card, needle and thread, but because the child loves the work he carefully and patiently overcomes the mechanical difficulties, and by and by is able to express himself in beautiful designs which are a study in both form and color. The additions and improvements which are constantly being made in the material used render this occupation more and more fascinating.

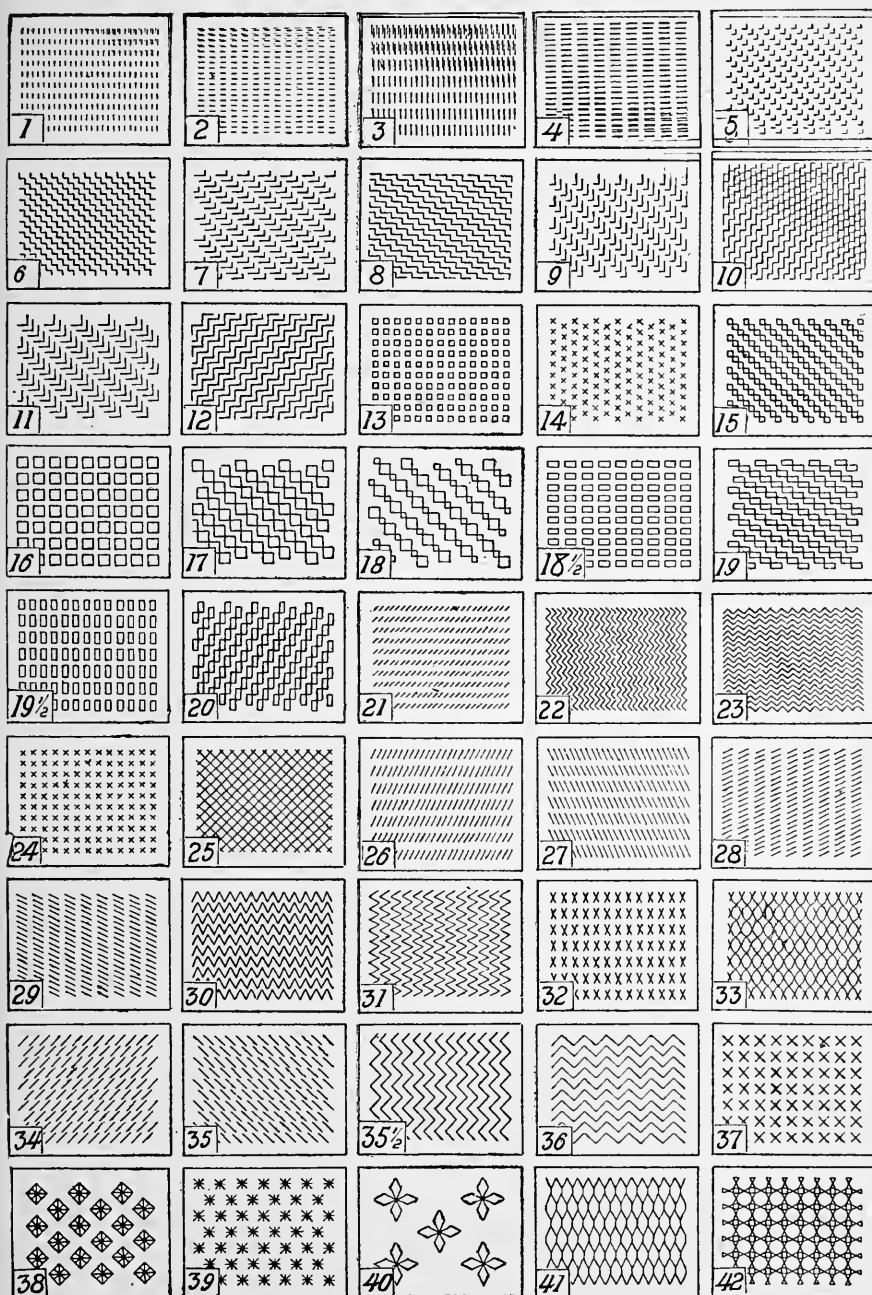
### BRADLEY'S PRICKED SEWING CARDS.

The extended line of cards of different sizes and perforated for a large number of designs for sewing which we manufacture have become a recognized necessity. They are not merely perforated board, of which the entire surface is punctured in regular squares, but the perforations are exactly adapted to the designs to be produced.

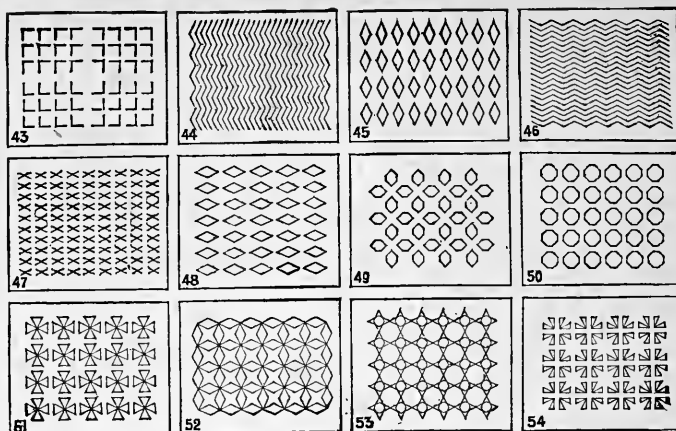
The 57 designs shown on the adjacent plates embrace a most elaborate series of sewing, based on the German school of embroidery. American kindergartners have materially abridged the number to be used in a course, and several years ago the ladies of the Florence, Mass., Kindergarten made a selection which we called the "Florence School of Sewing," comprising the following numbers: 3-4-11-12-16-17-19 $\frac{1}{2}$ -20-18 $\frac{1}{2}$ -19-34-35-35 $\frac{1}{2}$ -36-37-26-27-28-29-30-31-32-39-40.

Afterward another selection was made by a lady connected with the Normal School at Winona, Minn., to which we gave the name of the "Winona School of





Reduced Representations of the Embroidery Designs as Sewed on the  
No. 180 Pricked Sewing Cards.



## DESIGNS No. 180.—CONTINUED.

Sewing." This list comprises 28 designs, to be used in the following order: 3-4-13-16-19½-18½-34-35-35½-36-37-39-26-27-44-30-32-45-28-29-31-46-47-48-40-42-49-50.

The fifty-seven designs are produced from forty-seven patterns of pricking, as for instance, numbers 1-2-13-24-25 are all made with one pattern of pricking, as also 3-19½-32-33; and 16-37; and 4-18½-47. In ordering state how many cards are required for each *embroidered design*, according to the number on the plates; remember that there may be more cards of one style of *pricking* than the number ordered of any *one embroidery design*.

Formerly the children were expected to prick their cards before beginning the sewing, but it was found that the continuous pricking of so many holes in regular order required the closest application and that it hurt the eyes. Consequently many teachers felt constrained to assume the drudgery of pricking the cards for the children. But as there are over five hundred holes in many of the patterns, the advantage of ready-pricked cards to both pupils and teachers will be generally admitted.

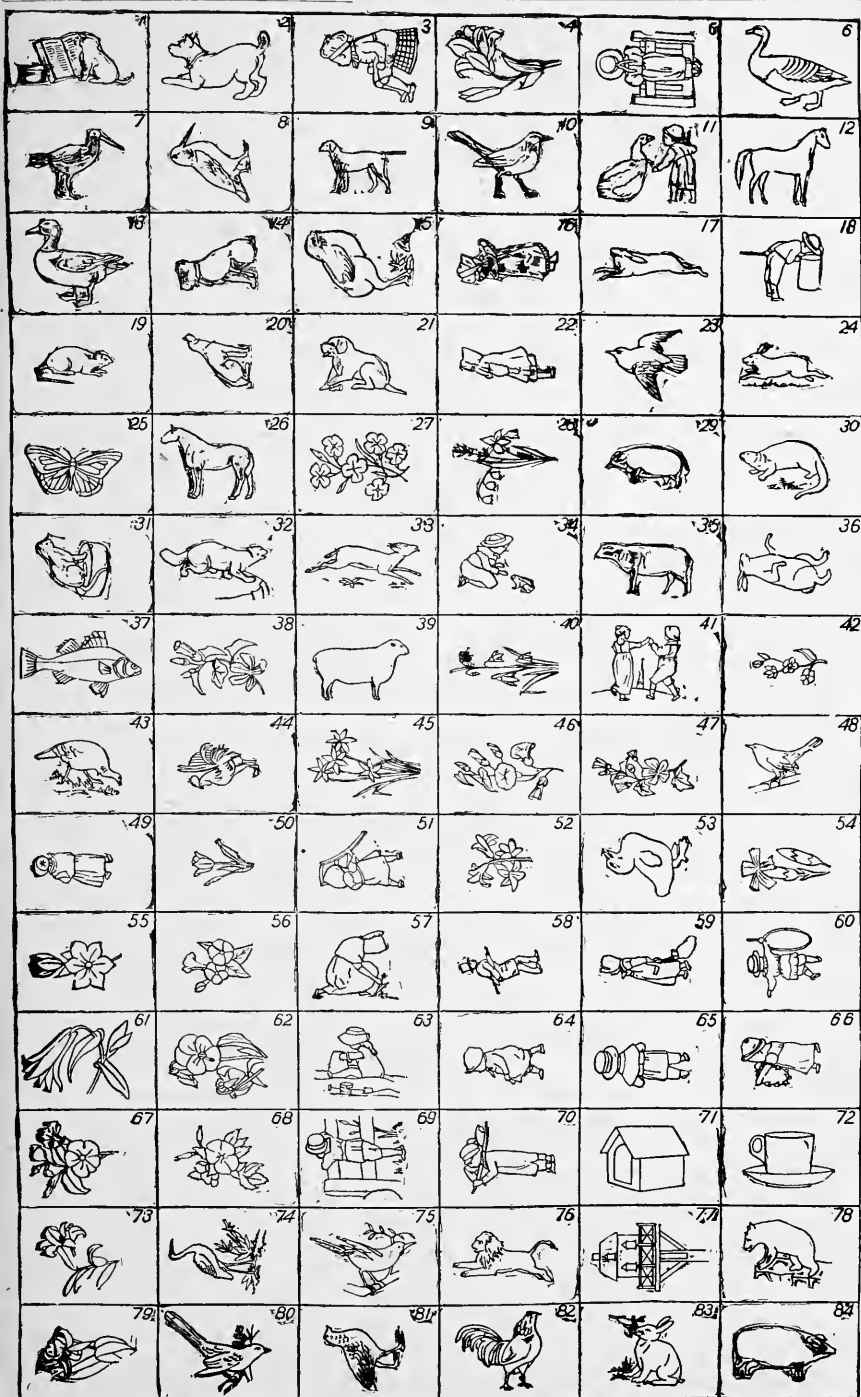
**180** 100 pricked cards, white,  $3\frac{3}{4} \times 4\frac{1}{2}$ , assorted as may be ordered Prick. Postage.  
from diagrams, . . . . . \$1.00 \$0.10

No. 180 covers all the different patterns of pricked cards represented on the plates; hence in ordering each pattern must be designated by its design number.

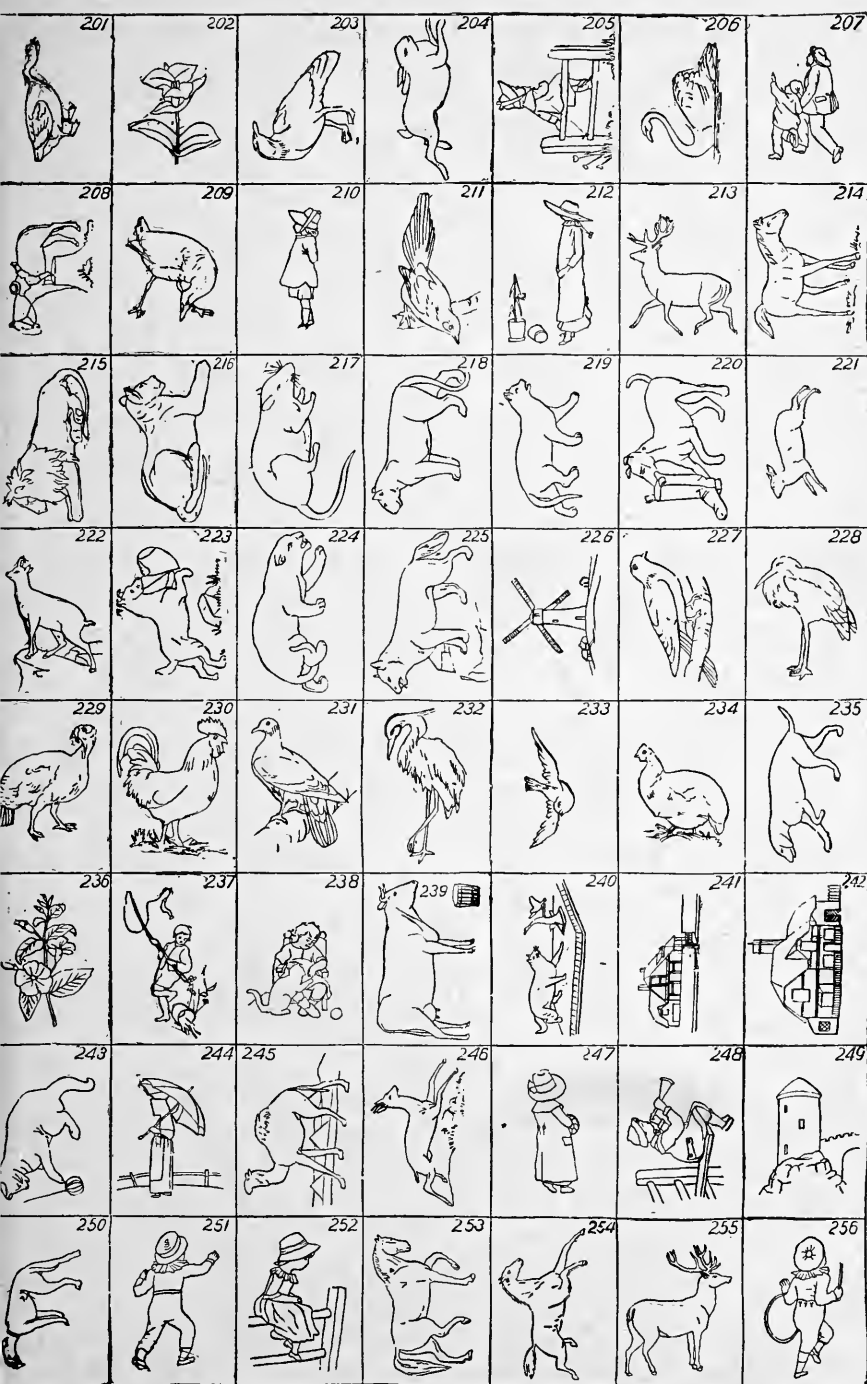
So, in ordering, say, "No. 180 pricked cards," and then give the number wanted of each design number.

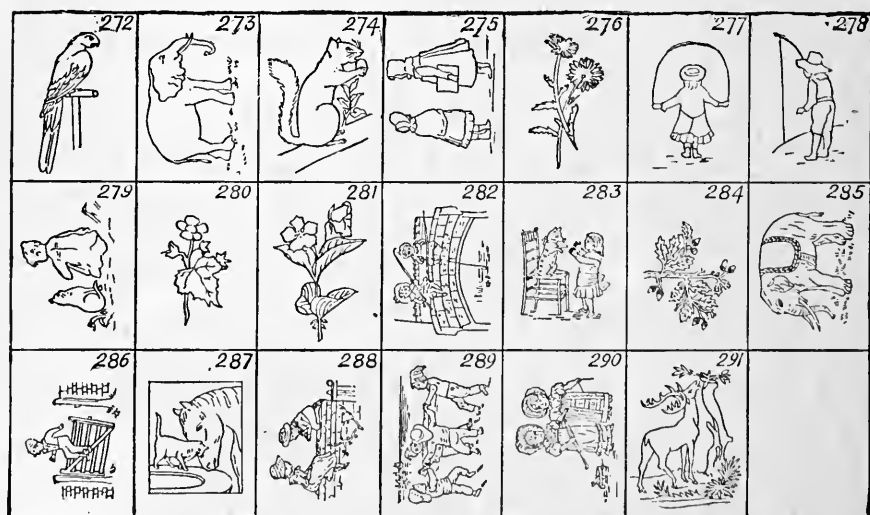
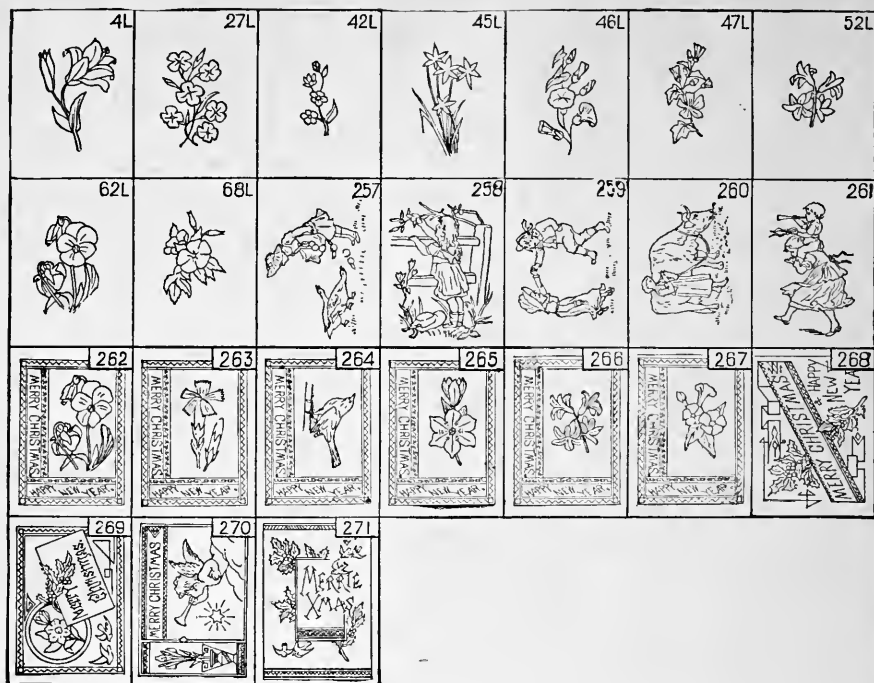
							Price.	Postage
<b>181</b>	100	white	cards,	$3\frac{3}{4} \times 4\frac{1}{2}$	in.	perforated regularly in $\frac{1}{8}$ in. sq'r's,	\$1.00	\$0.10
<b>182</b>	100	tinted	cards,	$3\frac{3}{4} \times 4\frac{1}{2}$	in.	perforated regularly in $\frac{1}{8}$ in. sq'r's,	1.00	.10
<b>183</b>	100	white	cards,	$3\frac{3}{4} \times 4\frac{1}{2}$	inch	not pricked,	.25	.10
<b>184</b>	100	tinted	cards,	$3\frac{3}{4} \times 4\frac{1}{2}$	inch	not pricked,	.30	.10
<b>185</b>	12	white	cards,	6x8,		perforated in $\frac{1}{4}$ inch squares,	.35	.05
<b>186</b>	12	"	"	7x9,	"	$\frac{1}{8}$ " "	.35	.05
<b>187</b>	12	"	"	6x8,	"	$\frac{1}{6}$ " "	.35	.05
<b>188</b>	12	tinted	"	6x8,	"	$\frac{1}{4}$ " "	.35	.05
<b>189</b>	12	"	"	7x9,	"	$\frac{1}{8}$ " "	.35	.05
<b>190</b>	12	"	"	6x8,	"	$\frac{1}{6}$ " "	.35	.05

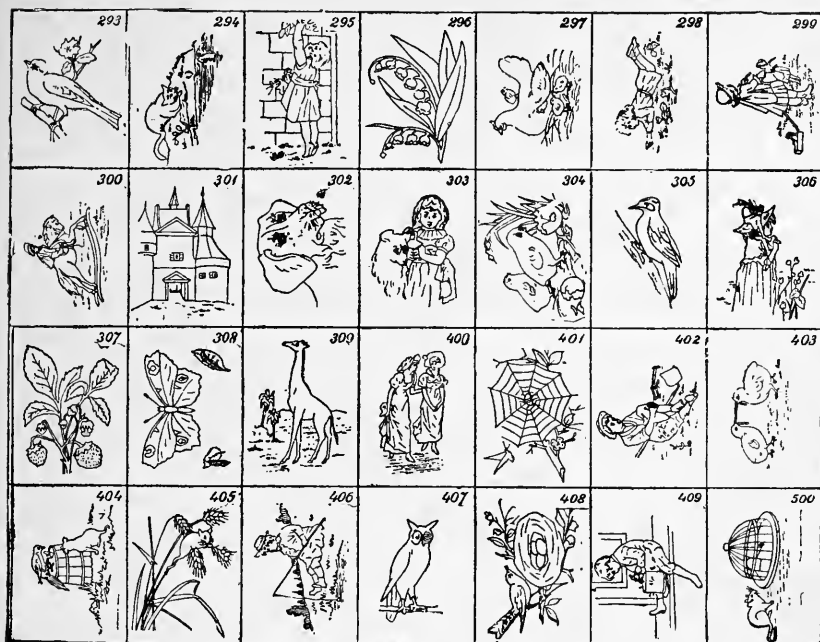
Aside from these numbers we always have in stock fine Bristol-card in sheets











### No. 192 OUTLINE EMBROIDERY CARDS, 51-2 x 71-2.

### EMBROIDERY SILK AND THREAD.

We carry in stock the following numbers of Etching Silk for outline embroidery. It has a soft finish, does not split and will fray less in working than any other material. The numbers indicate the colors, which are described as accurately as possible by name. Order by number.

506 Canary.	544 Dark Garnet.	587 Dark Bronze Green.
514 Purple.	551 Green.	603 Gray.
519 Baby Blue.	554 Grass Green.	690 Mahogany.
521 Light Blue.	558 Light Old Gold.	545 Dark Red Brown.
523 Blue.	559 Old Gold.	739½ Light Sailor Blue.
525 Dark Blue.	560 Dark Old Gold.	611 Dark Marine Blue.
530 Brown.	561 Olive.	612 Black.
572 Light Pink.	562 Olive Brown.	616 Cream White.
538 Cherry.	573½ Rose Pink.	623 Peacock Blue.
539 Scarlet.	575 Dark Rose Pink.	626 Light Green Blue.
542 Light Cardinal.	583 Light Green.	627 Green Blue.
543 Cardinal.	585 Light Bronze Green.	753 Light Olive.

We do not include these in our regular catalogue numbers, and in ordering you will say, Etching Silk, so many spools, such a number; or, one spool each, several numbers. Be very definite, that there may be no mistakes.

194 1 spool, including postage . . . . . Price. \$0.06

At the solicitation of many kindergartners with whom the cost of silk is an item to be considered, we have had made to order a quality of cotton thread, soft and unfinished, in seven colors: Red, Blue, Yellow, Green, Orange, Purple, and Gray.

These spools of cotton contain many times the length on the spools of silk.

196 1 dozen spools, assorted colors . . . . . Price. Postage. \$0.60 \$0.10

## WORSTEDS.

We offer a line of worsteds for the sewing, usually called Split Zephyrs, which are sometimes preferred to the silk or thread. In order to obtain the colors which best conform to our color scheme we buy imported wools of the finest quality. The assortment includes the six standards, with one tint and shade of each, three browns, two grays and black and white, listed as follows:—

R. T.—R.—R. S.—O. T.—O.—O. S.—Y. T.—Y.—Y. S.—G. T.—G.—G. S.—B. T.—B.—B. S.—V. T.—V.—V. S.—Light Brown—Medium Brown—Dark Brown—Gray 1—Gray 2.

	Price. Postage.
197 1 lap or skein. . . . .	\$0.10 \$0.02

## NEEDLES.

We furnish needles suitable for either silk, thread or worsted. These needles have long eyes, are easily threaded and the points are blunt. They are known by some dealers as rug or tapestry needles and are commonly called worsted needles. No. 23 is the coarser needle and most desirable for children's use. No. 25 is finer, being often preferred by kindergartners.

	Price. Postage.
199 1 paper, containing 25 needles, . . . . .	\$0.10 \$0.01

## THIRTEENTH GIFT OR OCCUPATION. PAPER CUTTING.

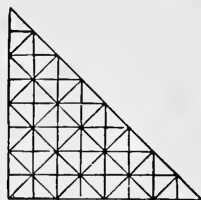


FIG. 1.

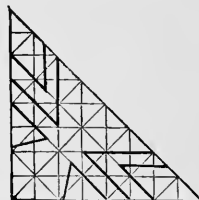


FIG. 2.

This occupation is the making of symmetrical designs by folding and cutting squares of papers in various ways. The child's natural propensity to destroy with scissors is here guided so ingeniously as to produce wonderful results.

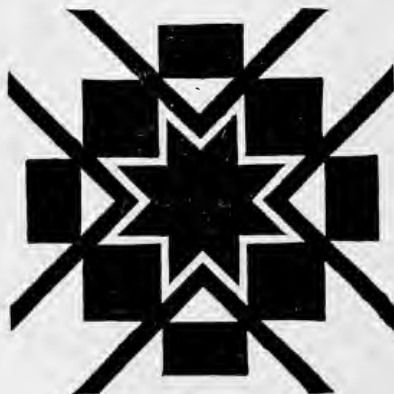


FIG. 3.

The usual material for paper cutting consists of plain squares of white or colored papers, which after being properly folded are marked by the teacher so as to guide the pupils in cutting. This paper must be cut with the greatest accuracy.

To save the time of the teachers, we manufacture our Ruled Cutting papers, which are now acknowledged to be exactly in the line of Fröbel's method, because they allow the child to accurately draw from dictation his own patterns for cutting.

Fig. 1 shows one of the triangular surfaces which is on the outside of the folded paper. Fig. 2 represents the same surface with cutting marks applied. Fig. 3 is the same design when cut. The ruled lines on the back of the papers, as in Fig. 1, correspond with 132 designs in the "Paradise of Childhood."



In the following list, Assortment A contains the six standards (R.—O.—Y.—G. B.—V.) with one tint and one shade of each and grays.

Assortment B, contains the intermediate hues (O.R.—R.O.—Y.O.—O.Y.—G.Y.—Y.G.—B.G.—G.B.—V.B.—B.V.—R.V.—V.R.) with one tint and one shade of each:—

				Price.	Postage.
200	100	Squares, 5 x 5, ruled, white paper,		\$0.40	\$0.05
201	100	" 5 x 5, ruled, engine colored, assorted colors,		.45	.05
202 x	100	" 5 x 5, ruled, coated, assortment A,		.50	.05
202 z	100	" 5 x 5, ruled, coated, assortment B,		.50	.05
203	100	" 5 x 5, unruled, white paper,		.10	.05
204	100	" 5 x 5, unruled, engine colored, assorted colors,		.15	.05
205 x	100	" 5 x 5, unruled, coated, assortment A,		.30	.05
205 z	100	" 5 x 5, unruled, coated, assortment B,		.30	.05
206	100	" 4 x 4, ruled, white paper,		.40	.04
207	100	" 4 x 4, ruled, engine colored, assorted colors,		.45	.04
208 x	100	" 4 x 4, ruled, coated, assortment A,		.50	.04
208 z	100	" 4 x 4, ruled, coated, assortment B,		.50	.04
209	100	" 4 x 4, unruled, white paper,		.08	.04
210	100	" 4 x 4, unruled, engine colored, assorted colors,		.12	.04
211 x	100	" 4 x 4, unruled, coated, assortment A,		.20	.04
211 z	100	" 4 x 4, unruled, coated, assortment B,		.20	.04
211 R	100	" 4 x 4, unruled, coated, Red, tints and shades,		.20	.04
211 O	100	" 4 x 4, unruled, coated, Orange, tints and shades,		.20	.04
211 Y	100	" 4 x 4, unruled, coated, Yellow, tints and shades,		.20	.04
211 G	100	" 4 x 4, unruled, coated, Green, tints and shades,		.20	.04
211 B	100	" 4 x 4, unruled, coated, Blue, tints and shades,		.20	.04
211 V	100	" 4 x 4, unruled, coated, Violet, tints and shades,		.20	.04
212 x	100	Equi. Tri., 4 x 4, coated, assortment A,		.25	.03
212 z	100	" 4 x 4, coated, assortment B,		.25	.03
212 R	100	" 4 x 4, coated, Red, tints and shades,		.25	.03
212 O	100	" 4 x 4, coated, Orange, tints and shades,		.25	.03
212 Y	100	" 4 x 4, coated, Yellow, tints and shades,		.25	.03
212 G	100	" 4 x 4, coated, Green, tints and shades,		.25	.03
212 B	100	" 4 x 4, coated, Blue, tints and shades,		.25	.03
212 V	100	" 4 x 4, coated, Violet, tints and shades,		.25	.03
213 x	100	Circles, 4 in. diam., coated, assortment A,		.25	.03
213 z	100	" 4 in. diam., coated, assortment B,		.25	.03
213 R	100	" 4 in. diam., coated, Red, tints and shades,		.25	.03
213 O	100	" 4 in. diam., coated, Orange, tints and shades,		.25	.03
213 Y	100	" 4 in. diam., coated, Yellow, tints and shades,		.25	.03
213 G	100	" 4 in. diam., coated, Green, tints and shades,		.25	.03
213 B	100	" 4 in. diam., coated, Blue, tints and shades,		.25	.03
213 V	100	" 4 in. diam., coated, Violet, tints and shades,		.25	.03

The packages of ENGINE COLORED PAPERS, ASSORTED COLORS, should be ordered from the new sample book, which represents a line capable of beautiful combinations and one that is better for color teaching than any assortment of engine colors previously offered the public. These are the numbers:—

1 A—2 A—3 A—4 A—5 A—6 A.

1—2—3—4—5—6.

1 B—2 B—3 B—4 B—5 B—6 B.

7—8—9—10—11—12—13—14—15—16.

FOR RULED MOUNTING SHEETS see numbers 79 and 80, following Parquetry.

We have frequent calls for full sheets of colored paper, twenty by twenty-four inches, by mail, but we cannot forward them without injury, except in paste-board cylinders.

The following are the prices per sheet for the paper, including postage, and any number of sheets will be at the same rate:—

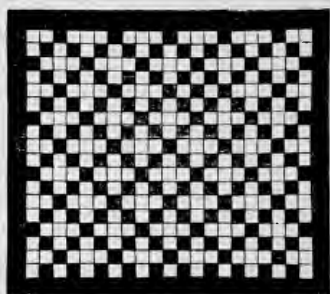
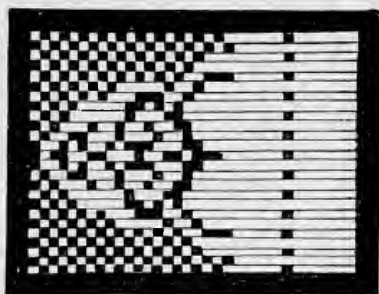
		Price and Postage.
220	One sheet coated paper, 20 x 24, any color in sample book, . . . . .	\$0.04
221	One sheet silver paper, 20 x 24, . . . . .	.08
222	One sheet gilt paper, 20 x 24, . . . . .	.10
223	One sheet engine col'd paper, any selection from sample book, . . . . .	.03

To each of these amounts five cents must be added for the cylinder, no matter how small the order.

Whoever orders papers should use our sample books and carefully read those pages in this catalogue which speak of The Bradley Color Outfit.

## FOURTEENTH GIFT OR OCCUPATION.

### WEAVING.



This occupation consists of weaving together strips of colored paper so as to construct symmetrical and beautiful figures or patterns. The foundation of each design is a sheet of paper slited into strips, which are joined by a margin at each end, this sheet of paper being called a mat. Into this mat are woven narrow strips of paper of a different color. The weaving is done with the aid of a flat steel needle, having a spring catch to receive and hold one end of the strip to be woven into the mat. By passing the needle over and under the strips of the mat the strip attached to the needle is readily and quickly woven into the pattern. The greatest variety of designs are produced, and the inventive powers of teacher and pupils constantly increase the number.

The sheet of strips to be woven into the mat is called a fringe, because the loose strips composing it were formerly joined at one end. Now, however, for convenience in handling, the strips are joined at both ends and are really mats, except that the border of the fringe is not as wide as that of the mat. Before using the fringe it is desirable to separate the strips from each other with scissors, as fast as they are wanted, and not undertake to tear them apart.

The child should at first be directed in the selection of colors, and invention in design may sometimes be permitted after he has become familiar with the principles of the designs already worked out.

Each of the following numbers indicates one package containing twelve mats and twelve fringes.

MATS 7 x 7 INCHES, SLITS  $\frac{1}{2}$  INCH WIDE.

- 999 R Red, with tints and shades.
- 999 O Orange, with tints and shades.
- 999 Y Yellow, with tints and shades.
- 999 G Green, with tints and shades.
- 999 B Blue, with tints and shades.
- 999 V Violet, with tints and shades.
- 1000 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
- 1001 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1002 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
- 1003 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
- 1005 Black and white.
- 1006 Grays.

MATS 7 x 7 INCHES, SLITS  $\frac{1}{3}$  INCH WIDE.

- 1009 R Red, with tints and shades.
- 1009 O Orange, with tints and shades.
- 1009 Y Yellow, with tints and shades.
- 1009 G Green, with tints and shades.
- 1009 B Blue, with tints and shades.
- 1009 V Violet, with tints and shades.
- 1010 R.—O.—G.—Y.—B.—V., with tints and shades and grays.
- 1011 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1012 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
- 1013 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
- 1015 Black and white.
- 1016 Grays.

MATS 7 x 7 INCHES, SLITS  $\frac{1}{4}$  INCH WIDE.

- 1019 R Red, with tints and shades.
- 1019 O Orange, with tints and shades.
- 1019 Y Yellow, with tints and shades.
- 1019 G Green, with tints and shades.
- 1019 B Blue, with tints and shades.
- 1019 V Violet, with tints and shades.
- 1020 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
- 1021 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1022 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
- 1023 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
- 1025 Black and white.
- 1026 Grays.

MATS 7 x 7 INCHES, SLITS  $\frac{1}{2}$  AND  $\frac{1}{4}$  INCH ALTERNATING.

- 1029 R Red, with tints and shades.
- 1029 O Orange, with tints and shades.
- 1029 Y Yellow, with tints and shades.
- 1029 G Green, with tints and shades.
- 1029 B Blue, with tints and shades.
- 1029 V Violet, with tints and shades.
- 1030 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
- 1031 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1032 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

- 1033 x VB.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1035 Black and white.  
 1036 Grays.

MATS 7 x 5 INCHES, SLITS  $\frac{1}{4}$  INCH WIDE.

- 1039 R Red, with tints and shades.  
 1039 O Orange, with tints and shades.  
 1039 Y Yellow, with tints and shades.  
 1039 G Green, with tints and shades.  
 1039 B Blue, with tints and shades.  
 1039 V Violet, with tints and shades.  
 1040 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1041 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1042 x G.Y.—Y.G.—B.G.—G.R., with tints and shades and grays.  
 1043 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1045 Black and white.  
 1046 Grays.

MATS 7 x 5 INCHES, SLITS  $\frac{1}{4}$  INCH WIDE.

- 1049 R Red, with tints and shades.  
 1049 O Orange, with tints and shades.  
 1049 Y Yellow, with tints and shades.  
 1049 G Green, with tints and shades.  
 1049 B Blue, with tints and shades.  
 1049 V Violet, with tints and shades.  
 1050 R.—O.—G.—Y.—B.—V., with tints and shades and grays.  
 1051 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1052 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1053 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1055 Black and white.  
 1056 Grays.

MATS 7 x 5 INCHES, SLITS 1-6 INCH WIDE.

- 1059 R Red, with tints and shades.  
 1059 O Orange, with tints and shades.  
 1059 Y Yellow, with tints and shades.  
 1059 G Green, with tints and shades.  
 1059 B Blue, with tints and shades.  
 1059 V Violet, with tints and shades.  
 1060 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1061 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1062 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1063 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1065 Black and white  
 1066 Grays.

MATS 7 x 5 INCHES, SLITS  $\frac{1}{4}$  INCH WIDE.

- 1069 R Red, with tints and shades.  
 1069 O Orange, with tints and shades.  
 1069 Y Yellow, with tints and shades.  
 1069 G Green, with tints and shades.  
 1069 B Blue, with tints and shades.  
 1069 V Violet, with tints and shades.  
 1070 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1071 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

- 1072 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1073 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1075 Black and white.  
 1076 Grays.

MATS 7x5 INCHES, SLITS  $\frac{1}{2}$  AND  $\frac{1}{4}$  INCHES ALTERNATING

- 1079 R Red, with tints and shades.  
 1079 O Orange, with tints and shades.  
 1079 Y Yellow, with tints and shades.  
 1079 G Green, with tints and shades.  
 1079 B Blue, with tints and shades.  
 1079 V Violet, with tints and shades.  
 1080 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1081 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1082 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1083 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1085 Black and white.  
 1086 Grays.

MATS 7x5 INCHES, SLITS  $\frac{1}{3}$  AND 1-6 INCHES ALTERNATING.

- 1089 R Red, with tints and shades.  
 1089 O Orange, with tints and shades.  
 1089 Y Yellow, with tints and shades.  
 1089 G Green, with tints and shades.  
 1089 B Blue, with tints and shades.  
 1089 V Violet, with tints and shades.  
 1090 R.—O.—G.—Y.—B.—V., with tints and shades and grays.  
 1091 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1092 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1093 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1095 Black and white.  
 1096 Grays.

MATS  $4\frac{3}{4}$  x  $4\frac{3}{4}$  INCHES, SLITS  $\frac{1}{4}$  INCH WIDE.

- 1099 R Red, with tints and shades.  
 1099 O Orange, with tints and shades.  
 1099 Y Yellow, with tints and shades.  
 1099 G Green, with tints and shades.  
 1099 B Blue, with tints and shades.  
 1099 V Violet, with tints and shades.  
 1100 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1101 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1102 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1103 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1105 Black and white  
 1106 Grays.

MATS  $4\frac{3}{4}$  x  $4\frac{3}{4}$  INCHES, SLITS  $\frac{1}{4}$  INCH WIDE.

- 1109 R Red, with tints and shades.  
 1109 O Orange, with tints and shades.  
 1109 Y Yellow, with tints and shades.  
 1109 G Green, with tints and shades.  
 1109 B Blue, with tints and shades.  
 1109 V Violet, with tints and shades.  
 1110 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1111 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

- 1112 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1113 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1115 Black and white.  
 1116 Grays.

MATS  $4\frac{1}{2} \times 4\frac{1}{2}$  INCHES, SLITS 1-6 INCH WIDE.

- 1119 R Red, with tints and shades.  
 1119 O Orange, with tints and shades.  
 1119 Y Yellow, with tints and shades.  
 1119 G Green, with tints and shades.  
 1119 B Blue, with tints and shades.  
 1119 V Violet, with tints and shades.  
 1120 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1121 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1122 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1123 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1125 Black and white.  
 1126 Grays.

MATS  $4\frac{1}{2} \times 4\frac{1}{2}$  INCHES, SLITS  $\frac{1}{2}$  INCH WIDE.

- 1129 R Red, with tints and shades.  
 1129 O Orange, with tints and shades.  
 1129 Y Yellow, with tints and shades.  
 1129 G Green, with tints and shades.  
 1129 B Blue, with tints and shades.  
 1129 V Violet, with tints and shades.  
 1130 R.—O.—G.—Y.—B.—V., with tints and shades and grays.  
 1131 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1132 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1133 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1135 Black and white.  
 1136 Grays.

MATS  $4\frac{1}{2} \times 4\frac{1}{2}$  INCHES, SLITS  $\frac{1}{2}$  AND  $\frac{1}{4}$  INCH ALTERNATING.

- 1139 R Red, with tints and shades.  
 1139 O Orange, with tints and shades.  
 1139 Y Yellow, with tints and shades.  
 1139 G Green, with tints and shades.  
 1139 B Blue, with tints and shades.  
 1139 V Violet, with tints and shades.  
 1140 R.—O.—Y.—G.—B.—V., with tints and shades and grays.  
 1141 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.  
 1142 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.  
 1143 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.  
 1145 Black and white.  
 1146 Grays.

### MRS. HAILMANN'S GRADED MATS.

All these are .4x4 inches with cut surface 3x3 inches, and are cut in both engine colored and coated papers.

ENGINE COLORED PAPERS, ASSORTED COLORS AND TINTS.

Each package of the Engine Colored Papers contains 50 mats and corresponding fringes.

- |                               |                                |
|-------------------------------|--------------------------------|
| 1200 Mats with 5 strips each. | 1203 Mats with 8 strips each.  |
| 1201 Mats with 6 strips each. | 1204 Mats with 9 strips each.  |
| 1202 Mats with 7 strips each. | 1205 Mats with 10 strips each. |

## EDUCATIONAL COATED PAPERS.

Each package of the coated papers contains twenty-five mats and corresponding fringes, assorted in six standard spectrum colors, with one tint and shade of each and neutrals and grays and black and white.

**1210** Mats with 5 strips each.

**1211** Mats with 6 strips each.

**1212** Mats with 7 strips each.

**1213** Mats with 8 strips each.

**1214** Mats with 9 strips each.

**1215** Mats with 10 strips each.

In addition to No. 1215, as above, the 10-strip mats are cut in the spectrum hues intermediate between the standards, with tints and shades, etc., as follows:—

**1216** Mats with 10 strips each of intermediate hues, O. R. – R. O. – Y. O. O. Y. – G. Y. – Y. G. – B. G. – G. B. – V. B. – B. V. – R. V. – V. R., with one tint and one shade each and neutrals and black and white.

Mrs. Hailmann's Graded mats cannot be furnished otherwise than as described, either in style of cutting or assortment of colors.

If mats in the other sizes are wanted in different cuttings or assortment of colors, they will be furnished as follows, but time must be allowed for their preparation:—

Twelve packages of one kind at AN ADVANCE OF ONE-QUARTER THE PRICE.

Six or more packages, but less than twelve, at AN ADVANCE OF ONE-HALF THE PRICE.

Less than six packages, DOUBLE THE CATALOGUE PRICE.

In ordering any special lots be sure and state just what is wanted in mats and what in fringes, and if both mats and fringes are wanted say MATS AND FRINGES.

For example: We have frequently received orders for twelve mats of a given assortment, when both mats and fringes are wanted. In lots cut to order we furnish twenty-four mats at the same price as twelve mats and twelve fringes.

BE SURE YOU SAY JUST EXACTLY WHAT YOU MEAN VERY DEFINITELY, AND WE WILL TRY TO DO OUR PART FAITHFULLY.

## BRADLEY'S PATENT WEAVING NEEDLE.



FIG. 1.

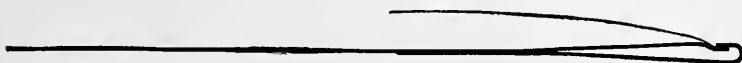


FIG. 2.

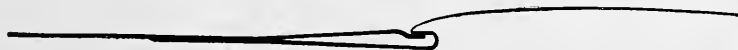


FIG. 3.

From the earliest split stick used by Frœbel the weaving needle has been subject to many improvements, and those needles which we offer the public are the result of long experience in using weaving materials and much experimenting in their manufacture. Figure 1 gives a general view of the operative part of the needle, Figure 2 shows how the paper is inserted and Figure 3 the threaded needle ready for use.





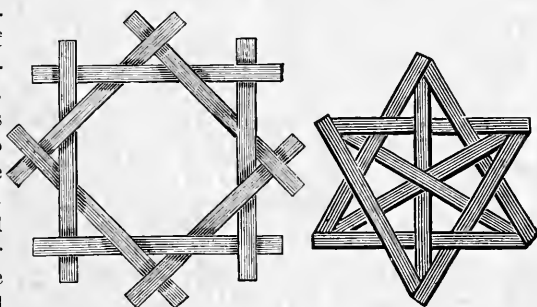
	Price.	Postage
<b>398b</b> Standard colors and gray, 1-6 inch wide, . . . .	\$0.10	\$0.02
<b>399</b> Assorted colors, $\frac{1}{4}$ inch wide, . . . .	.15	.03
<b>399a</b> Standard colors, with their shades and tints, $\frac{1}{4}$ inch wide, . . . .	.15	.03
<b>399b</b> Standard colors and gray, $\frac{1}{4}$ inch wide, . . . .	.15	.03
<b>400</b> Assorted colors, $\frac{3}{8}$ inch wide, . . . .	.15	.03
<b>400a</b> Standard colors, with their shades and tints, $\frac{3}{8}$ inch wide, . . . .	.15	.03
<b>400b</b> Standard colors and gray, $\frac{3}{8}$ inch wide, . . . .	.15	.03
<b>401</b> Assorted colors, $\frac{1}{2}$ inch wide, . . . .	.20	.03
<b>401a</b> Standard colors, with their shades and tints, $\frac{1}{2}$ inch wide, . . . .	.20	.03
<b>401b</b> Standard colors and gray, $\frac{1}{2}$ inch wide, . . . .	.20	.03

We cannot furnish small lots of these strips in special colors, because of the waste of time and paper, which such cutting would necessitate. But we will cut to order any assortment of colors in the half-inch strips which will amount to forty-six packages in all, at regular prices, or twenty-three and one-half packages at an advance of one quarter of the usual charge. Special orders outside these limits we must emphatically decline to fill, because it is impossible to do so at any reasonable rate.

## FIFTEENTH GIFT.

### PLAITING THE DISCONNECTED SLATS.

We offer an elegant hard-wood and hand-cut slat of uniform width and thickness, either plain or colored. The quality of these goods is superior to anything to be found elsewhere and the prices are exceptionally low. The colored slats command special attention wherever known. These are not like the ordinary soft wood colored splints formerly in use for fancy work.



	Price.	Postage.
<b>410</b> 50 slats, 10 inches long, hard wood, plain, . . . .	\$0.10	\$0.03
<b>411</b> 100 slats, 10 inches long, hard wood, plain, . . . .	.15	.05
<b>412</b> 50 slats, 10 inches long, hard wood, in six colors, . . . .	.15	.03
<b>413</b> 100 slats, 10 inches long, hard wood in six colors, . . . .	.25	.05

Nearly 50 designs for this gift in "Paradise of Childhood."

## SIXTEENTH GIFT.

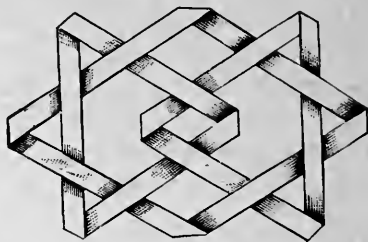
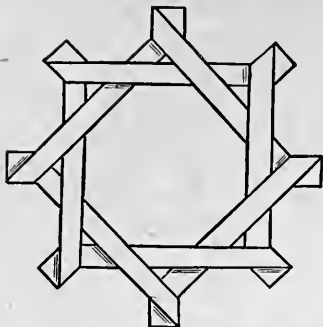
### THE GONIGRAPH, OR JOINTED SLATS.

As this gift is to represent various lines, angles and figures, and not to be used as a measure, the narrow, light links, joined in four sets, are much more desirable than the large, heavy-jointed metric measure, but we offer both.

	Price.	Postage.
<b>420</b> 4 sets of links; 1 each of 4 links, 6 links, 8 links, 16 links, each link 1 decimeter long. The whole in a box, . . . .	\$0.40	\$0.04
<b>421</b> 1 set of 16 links, . . . .	.20	.02
<b>422</b> 1 set of 8 links, . . . .	.10	.01
<b>423</b> 1 jointed metric measure, graduated, . . . .	.20	.02

## SEVENTEENTH GIFT.

### PAPER STRIPS FOR LACING.



Paper strips of various colors, folded lengthwise, are used to represent a variety of fanciful forms, by bending, twisting, and interlacing them, according to certain rules. We furnish strips twenty inches long, half an inch, and an inch wide, of various assorted colors. These strips are very difficult to keep in perfect condition unless put up in packages when cut, and hence we cannot undertake to furnish them in small quantities, except in packages of assorted colors as described below.

ALL PACKAGES CONTAIN 100 STRIPS ENGINE COLORED PAPER, 20 INCHES LONG.

		Price.	Postage.
430	Assorted colors, $\frac{1}{2}$ inch wide, . . . . .	\$0.15	\$0.03
430a	Six colors, $\frac{1}{2}$ inch wide, . . . . .	.15	.03
431	Assorted colors, 1 inch wide, . . . . .	.20	.05
431a	Six colors, 1 inch wide, . . . . .	.20	.05

ALL PACKAGES CONTAIN 100 STRIPS COATED PAPER, 20 INCHES LONG.

		Price.	Postage.
432	Assorted colors, $\frac{1}{2}$ inch wide, . . . . .	\$0.20	\$0.03
432a	Standard colors and their shades, tints and gray, $\frac{1}{2}$ inch wide, . . . . .	.20	.03
432b	Standard colors and gray, $\frac{1}{2}$ inch wide, . . . . .	.20	.03
433	Assorted colors, 1 inch wide, . . . . .	.25	.05
433a	Standard colors, and their shades, tints and gray, 1 inch wide, . . . . .	.25	.05
433b	Standard colors and gray, 1 inch wide, . . . . .	.25	.05

For other widths see Book Mark Strips, Fourteenth Gift, and for diagrams consult "Paradise of Childhood."

## EIGHTEENTH GIFT OR OCCUPATION.

### FOLDING PAPER.

The material for paper-folding consists of square, rectangular, triangular and circular pieces, with which variously shaped objects are formed.

		Price.	Postage.
440	100 Squares, 4 x 4, engine colored, assorted colors, . . . . .	\$0.12	\$0.04
441	100 Oblongs, 4 x 2, engine colored, assorted colors, . . . . .	.10	.02
442	100 Equilateral Triangles, 4 inches on side, engine colored, . . . . .	.20	.03
443	100 Circles, 4 inches diameter, engine colored, ast'd colors, . . . . .	.20	.03
444	100 Equilateral Triangles, 4 inches on side, white paper, . . . . .	.15	.03
445	100 Circles, 4 inches diameter, white paper, . . . . .	.20	.04

In addition to the above list of material we will take orders for packages to be made up in any of our colors, with not less than thirty pieces of any one color

in each, at regular prices. The description of the coated papers, four inches square, which we carry will be found under Cutting Paper in the Thirteenth Gift. For the diagrams pertaining to folding paper see "Paradise of Childhood."

PAPER FOLDERS.

The knives listed under the Twentieth Gift for Clay Modeling are perfect little paper-folders.

## NINETEENTH GIFT OR OCCUPATION.

### PEAS OR CORK WORK.

Skeleton forms of objects are made with pointed sticks and soaked peas, or with cork cubes and pointed wires. The sticks are round and very thin, but are to be cut to lengths and pointed by the teacher or pupil. The pointed wires and cork cubes are more durable and convenient, and generally preferred.

		Price.	Postage.
449	1000 sticks, 5 inches long, . . . . .	\$0.20	\$0.07
450	A box containing 100 pointed wires of various lengths, as- sorted, 1 inch, 1½ inch, 2 inch, 2½ inch, 3 inch, 3½ inch, . . . . .	.10	.03
451	A box containing 1000 wires, assorted as above, . . . . .	.50	.09
452	A package of 100 cork cubes, . . . . .	.25	.01

The sticks used in this gift are also put up in packages of one thousand in each length, from one to five inches, at the same price as the plain square sticks, which are listed under the Eighth Gift. See diagrams in "Paradise of Childhood."

## TWENTIETH GIFT OR OCCUPATION.

### WOODEN MODELING KNIVES AND BOARDS.

		Price.	Postage.
454	1 dozen knives, . . . . .	\$0.25	\$0.02
455	1 dozen boards, . . . . .	1.50	.75

### BRICKS OF DRY CLAY.

		Price.
456	1 brick of 5 pounds, . . . . .	*\$0.25

The forms for models are supplied in "Paradise of Childhood."

## PORTRAITS OF FRÖEBEL.

We publish the portrait of Fröbel in two sizes, the largest being three-quarters life-size, and the other three-eighths. They are Artotypes, printed on heavy paper from crayon drawings, no pains being spared to secure a thoroughly life-like and characteristic picture of the great German instructor. While all the profiles and medallions of him which have been preserved indicate the best qualities of mind and heart, the portraits of his time make him out but little better than a fool, a fact that even the children of to-day are quick to recognize whenever they chance to see those pictures. But the portraits which bear our imprint bring out prominently that intellectual power which is now universally accorded to Fröbel, and which is so apparent in the medallions and profiles.

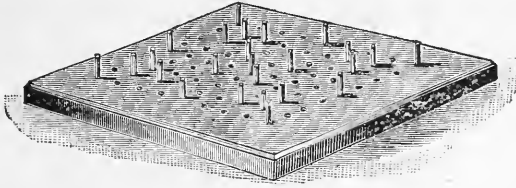
The largest portrait when suitably framed makes a very desirable embellishment for any home, kindergarten or school-room.

Both the pictures contain a facsimile of Fröbel's autograph and the smaller one is an excellent ornament for the school-room or the home, either with or without a frame.

		Price, by mail.
Large size, . . . . .		\$1.50
Medium size, . . . . .		.75



## MRS. PUTNAM'S BUSY WORK TILES.



An occupation for the youngest children, in the home, the kindergarten and the primary school.

Each tile is a finely finished board, six inches square, with holes drilled for pegs of various colors.

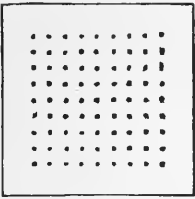


FIG. 1.

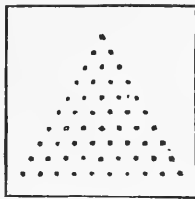


FIG. 2.

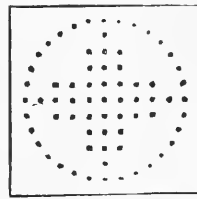


FIG. 3.

No. 1 has the holes arranged in half-inch squares, as seen in diagram, Figure 1.

No. 2 has the holes in a triangle, as seen in Figure 2.

No. 3 is represented in Figure 3.

The pegging of lines, angles and geometrical forms, the arranging of the colors in the various combinations, and the inventions of new forms and combinations are not only a diversion to the little ones but afford them valuable instruction both in the kindergarten and at home.

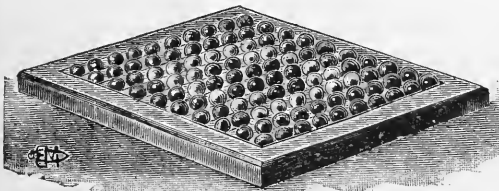
As put up for kindergarten and school use, the boards are without pegs, and the pegs are in boxes of one thousand each, assorted in six colors. In ordering it is very desirable to mention that Mrs. Putnam's Busy Work Tiles are wanted, so as to avoid possible confusion with other inferior grades of boards. For private use one board with a good assortment of pegs is put in a paper box, making the outfit complete.

		Price.	Postage.
474	1 tile, without pegs, . . . . .	\$0.25	\$0.05
475	1000 pegs, six colors in a box, . . . . .	.20	.04
476	1 tile, in box with pegs, . . . . .	.35	.08

**476A. Six Tiles in one box with six boxes Pegs, \$2.00.**

In ordering, say which pattern is wanted, whether No. 1, No. 2, or No. 3.

## THE BRADLEY BEAD TILE.



This illustration shows the Bead Tile for use with Mrs. Hailmann's Beads. It contains one hundred cups for receiving the half-inch spheres, No. 464, and is very effective for teaching number and form.

		Price.	Postage.
472	1 tile, without beads . . . . .	\$0.25	\$0.05



In our PATENTED, MARGINAL, INLAID ENAMEL TABLE the lines consist of deep channels sawed in the wood so that the surface is divided accurately into inch squares which are then carefully filled with black enamel, which proves as durable as the wood itself. The surface is given a fine polish and may be refinished whenever occasion requires, without disturbing the lines.

Each table is supplied with our improved folding brace, attached to the hinged leg, so that it can instantly be folded into a space about three inches thick, including top and legs, and as easily set up again. When it is set up the legs are absolutely rigid, being firmly braced without the strain on the hinges found in all other folding devices which make the legs rigid.

In these tables the lines all stop an inch from the edge and are terminated by a marginal line inside of a beaded moulding. Many kindergartners prefer this definite, plain margin from which to count and work, and also consider the beaded moulding a valuable improvement, because it serves as a rest for the box cover when closing an exercise with the Third, Fourth, Fifth and Sixth Gifts.

These tables are made in two widths and the height is twenty-one inches, but the legs can be shortened one or two inches without injury.

	Price.									
No. 1 table, 4 feet long, 16 inches wide,	.	.	.	.	.	.	.	.	.	*\$ 8.00
No. 2 " 7 " " 16 " "	.	.	.	.	.	.	.	.	.	*10.00
No. 2½ " 8 " " 16 " "	.	.	.	.	.	.	.	.	.	*11.00
No. 3 " 6 " " 30 " "	.	.	.	.	.	.	.	.	.	*12.00

In order to meet the demand for a cheaper table than those listed above we offer the following line. These tables are accurately inlaid with enamel, but have no marginal bead.

	Price.									
No. 10 tables, 8 feet long, 30 inches wide,	.	.	.	.	.	.	.	.	.	*\$10.00
No. 11 " 6 " " 30 " "	.	.	.	.	.	.	.	.	.	*8.00
No. 12 " 8 " " 16 " "	.	.	.	.	.	.	.	.	.	*7.00
No. 13 " 6 " " 16 " "	.	.	.	.	.	.	.	.	.	*6.00
No. 14 " 3 " " 16 " "	.	.	.	.	.	.	.	.	.	*4.50
No. 15 " 30 in. " 30 " "	.	.	.	.	.	.	.	.	.	*3 50

All of the above tables have folding legs and are twenty-one inches high, except No. 15. The latter has four turned legs which screw into the top, on the principle used in adjusting piano legs, and is twenty-two inches high, although any of the tables will be made a little lower than their regular height, when desired.

Besides these styles we make a line of

### WHITEWOOD TABLES.

Finished in oil and shellac, with squares plainly marked with a machine.

Whitewood Tables, 6 feet long, 16 inches wide, with legs to fold under, to accommodate four pupils each. No braces. Price . . . . . \$5.00  
Special lengths made to order.

### SQUARED ENAMELED CLOTH.

A beautiful, flat, varnished cloth, accurately ruled and durable, with black background and red lines, forty-five inches wide. It is readily cleaned when soiled, and can be made to protect almost any kind of school furniture. Only about three yards can be sent through the mails in one piece, so that if a larger quantity is wanted by mail the order must include directions for cutting.

Price, per yard, \$1.00; postage, \$0.30

### WHITE ENAMEL CLOTH.

Plain . . . . . per yard, \$0.25

### CHAIRS.

11 or 12 inches high, style A in cut . . . . . per dozen, \$6.00

### IMPROVED FOLDING CHAIRS.

This chair is made expressly for us from special designs, being so constructed that there is no danger that it will tip forward and give the child a fall, as often happens with some folding chairs. It can be handled very readily and as the cost is but little greater than that of the ordinary school chair, many kindergartners prefer it. Like the tables, it can be packed away in small compass, at a moment's notice. These chairs are well made and handsomely finished, the height of the seat being twelve inches from the floor.

Price, per dozen, \$7.50

### KINDERGARTEN TEACHERS' CHAIRS.

One half size, cane seat . . . . . each, \$1.25

### KINDERGARTEN TEACHERS' TABLES.

Round, 24 inches diameter, three legs, no drawer . . . . . " 3.00

### ROUND TABLE.

36 inches diameter, four legs, one drawer. Very firm and durable . . . . . " 4.50

### KINDERGARTEN HOME OCCUPATIONS.

This series of Kindergarten Occupations for the Home is entirely new and will be found to excel the collection which we formerly sold under the same name, although offered at a lower price. Each set is put up in a neat box with a handsome lithographed label. The series is as follows:—

	Price.	Postage.
WEAVING.—An assortment of paper mats and strips for weaving, with needle and directions . . . . .	\$0.50	\$0.14
CARD SEWING OR EMBROIDERY.—Design cards for perforating and sewing, with needle, cushion, thread and directions . . . . .	.50	.12
PAPER CUTTING.—Colored papers and scissors, with designs and instructions for cutting and pasting . . . . .	.50	.14
PARQUETRY PASTING.—Cut papers in various forms and colors, with designs and instructions for pasting . . . . .	.50	.15
NATURAL HISTORY CARD SEWING.—PLANTS.—Miss Arnold's Embroidery Cards, with needle, cushion and thread . . . . .	.50	.15
GEMS FROM THE KINDERGARTEN.—A box of weaving, stencils and embroidery design cards, with instructions . . . . .	*1.00	

### GAY'S BLACKBOARD RULING PEN.

(PATENT APPLIED FOR.)

Can be had for 50 cents, and will save a great deal of time and crooked writing on the blackboard.

### FOR KINDERGARTEN TRAINING CLASSES.

We have manufactured to order mounting books for the work of kindergarten training classes for a long time, but have never listed them in the catalogue till now, because of the variety demanded by different teachers. But the line which we now offer is meeting with such general favor that we feel the kindergarten public will find it entirely satisfactory.

These books are made to fold together so that the leaves can be instantly spread across a table and the sequence of the work shown at a glance. The leaves are of heavy white cardboard hinged with cloth, so as to fold into the covers, or allow the whole number to be extended. The covers are of the best English gray muslin and are neatly embossed, with the names of the occupation stamped in gilt from engraved dies on the front, and gray tapes for tying.

					Price.
Paper Cutting Book,	32 leaves	10 x 10	.	.	*\$1.25
Kindergarten Work Book,	36 "	10 x 10	.	.	*1.25
Paper Folding Book,	14 "	7 x 10	.	.	*.70
Sewing Book,	16 "	9 x 10½	.	.	*1.00
Weaving Book,	24 "	5½ x 7½	.	.	*.70
Pricking Book,	20 "	5 x 7½	.	.	*.70
Panorama Book,	14 "	9 x 9	.	.	*1.00

### CASES FOR KINDERGARTEN MATERIALS.

For the convenience of kindergartners using beads, weaving, sewing cards and parquetry papers in considerable quantities, we have made some boxes or cases of very heavy pasteboard neatly covered with strong black linen cloth. These boxes or cases are about eighteen inches long, thirteen inches wide, and two and one-half inches deep. The inside is divided into compartments arranged with reference to accommodating the different materials in each of the occupations named. Any one of the boxes will be useful for general kindergarten purposes. \*Price, \$1.00

### PORTRAIT OF MISS PEABODY.

We take pleasure in offering the kindergartners of America a portrait of Elizabeth Palmer Peabody, which meets the approval of her personal friends and will be welcomed by multitudes of those who did and those who did not know the distinguished and devoted American apostle of the kindergarten. The picture represents Miss Peabody seated in her arm-chair with an open book in her hands, just as she was photographed in the days when she used to lecture to the kindergarten classes in different parts of the country. It is intended as a companion piece to our portrait of Fröbel, and is made in two sizes.

	Price.
Large size portrait . . . . .	\$1.00
Medium size portrait . . . . .	.50

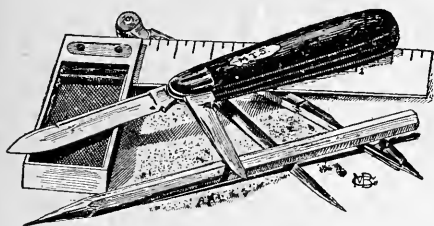
*The Kindergarten News* is a monthly magazine of fifty pages for kindergartners, primary teachers, and the mothers of little children. It costs but fifty cents a year.



### KNIFE WORK IN THE SCHOOLROOM.

PROBLEMS FOR PUPILS UNDER FOURTEEN.—BY GEORGE B. KILBON.

This book aims to furnish the average teacher with a course in Elementary Manual Training that can be carried on in any ordinary schoolroom with the least possible expense for tools and material. The problems can all be worked



out with the pocket knife, compass, pencil, gauge and try-square, and they are arranged in logical sequence.

In the preface the writer shows wherein the American system of Manual Training is better than the Swedish Sloyd. When requested we will send a price list of prepared material for the whole course, which we keep in stock. The book has 200 pages and 450 illustrations.

Price, in cloth and gilt, \$1.00

### COLOR IN THE SCHOOLROOM.

A MANUAL FOR TEACHERS.—BY MILTON BRADLEY.

This book sets forth the peculiarities of the Bradley Scheme for Teaching Color to the pupils of our common schools, insists on making the solar spectrum the standard of color and treats red, orange, yellow, green, blue and violet as primary colors, from which all the ordinary color combinations can be made, with the addition of white and black. It explains the necessity of using the Maxwell Disks and Color Wheel in making these combinations and proposes a nomenclature for recording the results secured on the wheel and definitely defining any color combination which the wheel renders possible. "Color In The Schoolroom," also indicates what can be done along the various lines of color instruction by the use of the Bradley Educational Colored Papers, which comprise about one hundred and fifty colors, standards, hues, shades, tints, grays, black and white.

Price, in cloth and gilt, \$1.00

### ELEMENTARY WOODWORK.

BY GEORGE B. KILBON.

This book is a series of sixteen lessons taught in the senior grammar grade at Springfield, Mass., which are designed to give fundamental instruction in the use of all the principal tools needed in carpentry and joinery. The illustrations are numerous.

Price, cloth, \$0.75

### WOODWORK IN THE COMMON SCHOOL.

FOR PRIMARY AND GRAMMAR GRADES.—BY FREDERIC A. HINCKLEY.

This book is a manual for teachers, bridging the chasm between the kindergarten and the advanced manual training schools. It contains dictations, suggestions and plates for the whole course. The work is adapted to the regular schoolroom, and can be conducted, if necessary, by the regular teacher. It is thoroughly American in spirit and logical in development, and can be introduced at very moderate cost. It has been adopted in several Massachusetts cities, and is in process of adoption elsewhere. It undertakes to cover completely the lower as well as the higher grades of school work, makes drawing fundamental, and emphasizes at every step the importance of original work by the pupil. Woodwork in the Common School is a book that all progressive school boards will want to examine.

Price, cloth, \$1.00

## IN THE CHILD'S WORLD.

BY EMILIE POULSSON.—ILLUSTRATED BY L. J. BRIDGMAN.

A Shetland  
Pony

ness and Christian charity, although there is in it no attempt to moralize from the standpoint of any particular creed.

In the *Child's World* is a work of nearly 450 pages, printed on heavy paper, with over 100 illustrations by L. J. Bridgman of Boston, and is handsomely bound. Mr. Bridgman is the artist who made the pictures for Miss Poulsson's other book, "*Nursery Finger Plays*," and this new contribution, while different in kind from that famous kindergarten classic, fully sustains the reputation of its gifted author. The preparation of these talks and stories was first undertaken for the kindergartens of Boston and vicinity.

The book is in no wise intended as a one-year programme, for while the subjects follow, somewhat, the course of the kindergarten year, there is often more than enough for two weeks' work with the children under a single subject. Connected with each topic is a list of books which the teacher is recommended to read, this feature being one of the most valuable of any in the book. These lists have been prepared that they may tempt the teacher to avail herself of the refreshment and inspiration which poet, philosopher, scientist and story-teller are ready to give.

While most of the stories in the book are for children of the kindergarten age, whether at home, in the kindergarten or the lower grades of the primary school, a few are intended expressly for older children.

Price, cloth and gilt, \$2.00

## FINGER PLAYS

FOR NURSERY AND KINDERGARTEN.

This book is by Emilie Poulsson, with music by Cornelia C. Roeske and illustrations by L. J. Bridgman. Wherever a kindergarten is found there is sure to be seen at least one copy of the "*Finger Plays*." The book is dedicated to the "Little children at home and in the kindergarten." It is founded on the theory that in all times and among all nations finger plays have been a delight of childhood and that by their judicious and early use the development of strength and flexibility in the tiny fingers may be helped so that dormant thought shall receive its first awakening call through the motions which interpret as well as illustrate the phase of life or activity presented by the words. A glance at the eighteen finger plays will show that while some of them are for the babies in the nursery others are more suitable for older children. Price, cloth and gilt, \$1.25

## PARADISE OF CHILDHOOD.

REVISED EDITION.—BY EDWARD WIEBE.

This standard work was the first illustrated GUIDE to the Kindergarten ever published in the English language, and is still the only complete guide covering the whole ground. It is an exponent of pure Fröbelian Kindergarten, and forms the best possible foundation for the building of a complete Kindergarten education. No book can take the place of practical observation and experience, but the PARADISE OF CHILDHOOD is very valuable to any parent or teacher who desires to look into this popular method of child-culture. The revised edition contains all the matter formerly used in A Hand Book for the Kindergarten, without any increase in price, and a paper on Kindergarten Culture, added some years since, making altogether one hundred pages of text and seventy-six pages of lithographic plates, at a price which brings it within the reach of every teacher and parent.

Price, paper covers, \$1.50; cloth, \$2.00

## THE KINDERGARTEN AND THE SCHOOL.

BY FOUR ACTIVE WORKERS.

The book comprises five papers as follows: Fröbel—The Man and His Work, by Anne L. Page; The Theory of Fröbel's Kindergarten System, by Angeline Brooks; The Gifts and Occupations of the Kindergarten, by Angeline Brooks; The Use of Kindergarten Material in the Primary School, by Mrs. A. H. Putnam; The Connection of the Kindergarten with the School, by Mrs. Mary H. Peabody. Well printed on heavy paper, with wood engravings illustrating the chapter on the gifts and occupations of the Kindergarten. 150 pages.

Price, paper covers, \$0.50; cloth, \$0.75

## SONGS, GAMES AND RHYMES.

FOR THE NURSERY, KINDERGARTEN AND PRIMARY SCHOOL.

With notes and suggestions by Eudora Lucas Hailmann. The superintendent of public schools, New Orleans, La., says: "Mrs. Hailmann's 'Songs, Games and Rhymes' is the best book of its kind that I have seen. Combining good and simple music with enlivening words and cheerful games, it will be hailed as a treasure by kindergartners everywhere."

The book contains 211 pieces classified as follows: Opening Songs, 15; closing Songs, 10; Songs and Games of the Seasons, 16; Weather Songs and Games, 10; Songs and Games of Animated Nature, 35; Trades and Occupations, 19; Marches and Movement Plays, 31; Ball Games, 20; Finger and Hand Games, 26; Miscellaneous Games, 30. 169 pages.

Price, paper covers, \$1.25; cloth, \$1.75

## FRÖBEL—THE MAN AND HIS WORK.

BY ANNE L. PAGE.

This is a brief biography of the founder of the kindergarten in a convenient form, with a picture of his birthplace and the monument to his memory on the cover. The book also contains two portraits of Fröbel and the picture of the village of Keilhau, where his peculiar school first flourished. Price, paper covers, \$0.25

## COLOR IN THE KINDERGARTEN.

BY MILTON BRADLEY.

This little book is intended to be a Manual of the Theory of Color and Practical Use of Color Material in the Kindergarten. It contains the latest information to be obtained on this subject and is illustrated in a way that cannot fail to be helpful to all who are interested in color teaching.

Price, paper covers, \$0.25

## KINDERGARTEN PAPERS.

BY ANGELINE BROOKS.

This is a collection of the seven papers relating to the work of the kindergarten in its different phases which have recently been printed in some of the leading periodicals of the day or read before distinguished audiences. The list is as follows: The Philosophy of the Kindergarten; The Possibilities of the Kindergarten; The Kindergarten as an Institution for Moral Training; Play and Work in Education; The Connection Between the Kindergarten and the Primary School; Fröbel's Interpretation of Nature; The Religious Nurture of Early Childhood.

Price, paper covers, \$0.25

## CLAY MODELING IN THE SCHOOLROOM.

BY ELLEN STEPHENS HILDRETH.

This book is an illustrated manual of instruction in Clay Modeling for the kindergarten and school, based on the curved solids. There has long been a demand among kindergartners and primary school-teachers for just such a book, and the directions are so plain and minute that they can be followed with little difficulty. Mrs. Hildreth was associated with Miss Blow in the St. Louis kindergartens. Clay Modeling has 75 pages.

Price, paper covers, \$0.25

## SONGS FOR LITTLE CHILDREN.

PARTS I. AND II.—BY ELEANOR SMITH.

Part I. of this book was composed and arranged by Miss Smith seven years ago, being published at that time with an introduction by Mrs. Alice H. Putnam. It has since met with widespread popularity, which is so well maintained as to result in a definite demand by the kindergartners of Chicago and vicinity for Part II. The new book, which has a large variety of special songs, bids fair to be as popular as the other, and the two are made up in this way:—

Part I. contains ninety-one pieces, words and music, divided as follows: Morning Songs, 7; Songs of the Seasons, 26; Gift Songs, 27; Marching Songs, 3; Circle Games, 5; Trade Songs, 4; Miscellaneous, 16; Closing Songs, 3. There are 109 pages. Price, paper, \$1.00; cloth, \$1.25

Part II. contains one hundred pieces, songs and music, divided as follows: Morning Songs, 5; Trade Songs, 21; Circle Games, 14; Songs of the Seasons, 6; Color, 2; Finger Songs, 4; Gift Songs, 8; Miscellaneous, 40. There are 123 pages. Price, paper, \$1.00; cloth, \$1.25

## A CHRISTMAS FESTIVAL SERVICE.

FOR HOME, KINDERGARTEN, AND SUNDAY SCHOOL.

This book is arranged by Nora A. Smith, Principal of the California Kindergarten Training School at San Francisco, and is made up of such songs and carols as have been found popular with little children. The melodies are all simple and easily learned, although by good composers. Most of the songs are intended to be accompanied by natural gestures, such as will naturally suggest themselves to the little ones. The book is printed with red marginal lines and topics. Price, paper, \$0.25

## THE KINDERGARTEN BLACKBOARD.

BY MARION MACKENZIE.—INTRODUCTION BY CONSTANCE MACKENZIE.

This book is a collection of outline drawings embracing over one hundred familiar objects in which young children are likely to be interested. It is based on the idea that the "talk, the song and the story are but half told without the aid of the blackboard." The object of the book is to give the kindergartner facility in representing to the children on the blackboard the subjects introduced daily into the kindergarten. The opening pages are taken up with things which are supposed to pertain in some way to the different months, and then follows a miscellaneous collection of everyday objects, full directions being given in the preface as to how the drawings should be made.

The Kindergarten Blackboard is the outcome of certain experiments made by the author with Philadelphia kindergartens who asked her to start a class in blackboard sketching. They explained that they did not want instruction in object drawing, but needed practice in copying from the flat in order to illustrate in a simple way their songs and stories. Miss Mackenzie found it quite difficult to simplify such drawings as the kindergartners could make appropriate for their programmes. She therefore arranged this series on which they could base their practice outside of class lessons. The plates are 9 x 12 inches and the low price of the book brings it within the reach of every teacher.

Price, boards, \$0.60

## PRACTICAL SUGGESTIONS.

FOR KINDERGARTNERS, PRIMARY TEACHERS AND MOTHERS.

This book is by Jeanette R. Gregory, and its object is to furnish a basis for building connected programmes, thereby insuring thorough and systematic work during the year. It contains a connected programme based upon the "Mutter and Kose-Lieder," for forty weeks' work which is intended to be suggestive in its nature rather than to be followed literally. An appropriate song is suggested for each week, accompanied by a detailed talk, to show the manner of impressing on the minds of the children the truth it contains. For the benefit of the teacher a talk is arranged, bringing out the underlying principles of each song.

The Gift lessons are original and fully illustrated by numerous engravings, embracing practical lessons with First Gift, Second Gift, Building Gifts, Squares, Triangles, Sticks, Rings and Beads.

The thought contained in the programme is developed by a complete set of lessons in Modeling, Peas Work, Folding, Pasting, Mats, Sewing, Drawing; the lessons in Sewing, Drawing and Folding are illustrated by engravings, and all are accompanied by directions for giving the work to the children.

The book has over 200 pages, size 9 x 12; is printed on fine, heavy paper and handsomely and substantially bound.

Price, leather, cloth and gilt, \$3.00

## PAPER AND SCISSORS IN THE SCHOOLROOM.

BY EMILY A. WEAVER.

This book is planned to give a practical and systematic course in paper folding and cutting for all grades in the public and private schools. The work begins with the simple foldings adapted to the first year in school and enlarges its scope to give cutting suited to higher grade work. With over 200 illustrations.

Price, paper covers, \$0.25

## ELEMENTARY COLOR.

BY MILTON BRADLEY.

This is a book of 130 pages, with an introduction by Prof. Henry Le-favour, of Williams College. It is fully illustrated with black and white drawings, in addition to a frontispiece comprising miniature charts of Pure and Broken Spectrum Scales, made from colored papers in 126 different colors.

Nowhere else can be found such a complete explanation of the use of the Glass Prism, Color Wheel, Maxwell Disks, Color Top, Colored Papers, and various Color Charts.

This subject of Color, in its relation to public school instruction, is at present gaining ground as never before, and it is too late for teachers to ignore the importance of color instruction from the utilitarian as well as the artistic point of view. Until recently it has been very difficult for them to learn how to impart anything pertaining to this subject in a logical way, but Elementary Color takes a long step ahead in presenting whatever is known about this peculiar and eminently fascinating adjunct of art and science in the daily life of everybody. Price, cloth, \$0.75

## INSTRUMENTAL SKETCHES FOR KINDERGARTNERS.

BY KATHARINE MONTZ.

This is a kindergarten music book without words. The object of the author is to awaken in the minds of the children various emotions through different rhythms alone. The book contains fifty-three pages, nearly music-page size. Among the pieces are the following: For Prayer; Good Morning Bows; Fire Bells; Sewing Machine; Tiptoe March; Horse Trotting; Rocking the Cradle; Church Bells; Circle March; Skip; Locomotive; Blacksmith; Millwheel; Washing.

A book of this kind has long been wanted by kindergartners, and is now published to meet the general demand. Price, cloth, \$1.00

## SUGGESTIONS FOR GYMNASTIC EXERCISES FOR SCHOOLS.

By Hellen Clark Swazey.—The author's education and experience in anatomy, physiology, and light gymnastics peculiarly fit her to give the advice and instruction needed by every teacher. The Movements and the use of Wooden Dumb-bells, Wands and Rings are very clearly explained and fully illustrated by drawings from life. Price, paper, \$0.15

## SONG STORIES FOR THE KINDERGARTEN.

Music composed and arranged by Mildred J. Hill. Words and music by Patty S. Hill. Introduction by Anna E. Bryan.

Price, boards, \$1.00; cloth, \$1.50

## BOSTON COLLECTION OF KINDERGARTEN STORIES.

Admirably suited to the needs of both primary and kindergarten teachers. It is a collection of fifty-nine stories and fables gathered by several of Boston's best and most successful kindergartners, and used by them in their daily work. It is a neat book of 116 pages, attractively bound in gray cloth. Price, postage paid, \$0.60

## HELPS FOR UNGRADED SCHOOLS.

## A MANUAL FOR THE USE OF EDUCATIONAL MATERIAL.

This book pays special attention to Language Work, and takes up the various other branches which are liable to be pursued in the ungraded school. The directions for using the material employed in connection with these studies are very explicit and easily understood. It has met with warm commendation from superintendents and teachers who have used it. Price, in pliable covers, \$0.25

KINDERGARTEN AND CHILD-CULTURE PAPERS.—Papers on Fröbel's Kindergarten, with suggestions on principles and methods of child-culture in different countries. Henry Barnard, LL.D., editor. Price, \$3.50

PRIMARY METHODS.—By W. N. Hailman, A.M. Price, cloth, \$0.75

MOTHER PLAY AND NURSERY SONGS.—By Friedrich Fröbel; translated by Miss Jarvis. Price, \$2.00

KINDERGARTEN CHIMES.—By Kate Douglass Wiggin.

Price, boards, \$1.25; cloth, \$2.00

NATIONAL KINDERGARTEN SONGS AND PLAYS.—By Mrs. Louise Pollock, Principal of the Kindergarten Normal Institute, Washington, D. C. Price, boards, \$0.50

CHEERFUL ECHOES.—From the National Kindergarten. Written and compiled by Mrs. Louise Pollock. Price, boards, \$0.50

MOTHER'S SONGS, GAMES, AND STORIES.—Translated by Frances and Emily Lord. English and German text, illustrated, 325 pages. Price, \$3.00

THE USE OF STORIES IN THE KINDERGARTEN.—By Miss Anna Buckland.

Price, paper, \$0.15

RHYMES AND TALES FOR THE KINDERGARTEN AND NURSERY.—Collected and revised by Alma L. Kriege. Price, cloth, gilt edges, \$1.00

SYMBOLIC EDUCATION.—By Susan E. Blow. Price, cloth, \$1.50

REMINISCENCES OF FRIEDRICH FRÖBEL.—By Baroness B. Von Marenholtz-Bulow, with a sketch of the life of Fröbel by Emily Shirreff. Price, cloth, \$1.50

FRÖBEL AND EDUCATION BY SELF-ACTIVITY.—By H. C. Bowen. Price, \$1.00

FRÖBEL'S LETTERS.—Edited by Emilie Michaelis and H. Keatley Moore.

Price, \$1.25

NURSERY STORIES AND RHYMES.—By Emilie Poulsson.

Price, \$1.25

THE KINDERGARTEN NEWS.—A monthly publication, containing news of the Kindergarten movement from all over the world. It is full of matter of interest to all interested in the Kindergarten. Price per single copy, \$0.05; per year, \$0.50

THE KINDERGARTEN MAGAZINE.—A monthly magazine, containing discussions of, and interesting and instructive articles on, the Kindergarten, for either mothers or teachers. Price per single copy, \$0.25; per year, \$2.00

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- MOTHERS' PORTFOLIO.—By Misses Stockham and Kellogg. Boards, \$2.50
- CLAY MODELING IN THE SCHOOLROOM. Paper covers, \$0.25



## THE SCRIPT SENTENCE BUILDER.

"Busy work" must always be an important part of a child's school life, for the teacher with her varied duties can devote but a limited time to class work. To meet this growing demand we now offer for sale the Script Sentence Builder. It is intended to precede the Sentence Builder printed from ordinary type which we have published for some years. The written word is to-day universally first presented in teaching the first steps of reading, and the script form is used exclusively during the first five or six months of the child's school life, hence it is desirable that the child should have material at hand with which he can make some use of his newly-acquired knowledge.

The Script Sentence Builder consists of two hundred and twenty-five tablets, which represent sixty different words. They are written on both sides of the tablet in a neat, plain hand, and in accordance with the principles of writing generally taught in public schools. Such words as are to be used for beginning a sentence commence with a capital on one side of the tablet so that correct sentences can be made, and correct language principles instilled at the same time. The collection contains a larger number each of verbs and such words as are liable to be more often repeated than other words, so that with the variety of object words given, the child will be able to make many different language-stories, and simple words have been selected from those first taught in order that he may have no difficulty in working by himself.

Price, per box, 14 cents.

## THE SENTENCE BUILDER.

This box contains two hundred and twenty-five separate tablets, and forty-five different words, each of which is repeated five times. These words are all of them supposed to be familiar to the child and are printed on both sides of substantial and durable cardboard, in clear, bold type, so as to be read by the teacher at a considerable distance, although it is also so condensed that the letters take up the least possible space from right to left on the desk. In selecting the words the attempt has been made to present those which will readily group themselves into such language-stories as the child will be most likely to form for himself, with the occasional help of the teacher. Most of the nouns are capable of pictorial illustration and all the words are those he will meet very early in his acquaintance with the First Reader. Wherever a word is suitable for beginning a sentence it is printed on one side of the tablets with its first letter as a capital, so that it can be used for that purpose when desirable.

Price, per box, 14 cents.

## THE WORD BUILDER.

Each letter is printed on a separate card of good thickness, accurately cut to gauges and put into a neat, strong box of ample size for convenient use.

Each box contains more than two hundred pieces, comprising capitals and small letters, numerals and punctuation marks, assorted according to the general scheme used in fonts of type, and the same letter is on both sides of a tablet. The convenience and durability of the Word Builder, as well as its low price, make it exceedingly popular.

Price, per box, 12 cents.

## THE WORD MAKING TABLETS.

This box contains a good selection of capitals, small letters and numerals, in more prominent type than the rest of the series, printed on both sides of tablets an inch square and assorted as in fonts of type, for word-making.

Price, per box, 25 cents.

## THE LANGUAGE TABLETS.

They comprise several hundred words and the scheme includes a small box of letters like those in the Word Builder, for spelling such words not found in the main box as may be wanted to complete the story the child is making. The type used for these letters is the same as in the Sentence Builder and Word Builder and is uniform with that represented on the tablets, so that a word made up from the letters occupies the same space which it would if printed on a tablet.

There are two sizes of these tablets, one being an inch square and the other an inch by an inch and a half. So far as is possible a word and its derivative are placed on different sides of the same tablet, and when tablets contain two entirely distinct words those beginning with the same letter are brought together in nearly every case, to facilitate the finding of the word wanted.

From the list of words printed on the inside of the cover the teacher can check off a few for the immediate use of the smaller children, placing the rest in an envelope to be sealed up and kept till wanted.

Price, per box, 35 cents.

## THE NUMBER BUILDER.

Having received frequent requests from teachers for something to help young children in combining numbers, just as the Sentence Builder and the Word Builder aid them in forming short stories and in the expression of their thoughts, we offer the Number Builder for desk work.

The box contains a liberal supply of the first ten numerals, the cipher and the signs of Addition, Subtraction, Multiplication, Division and Equality, printed on substantial and good-sized tablets.

The combinations which are possible and most desirable with such an outfit will readily suggest themselves to the teacher, and after the children have worked by dictation for a time they can be trusted to make combinations of their own.

Price, per box, 12 cents.

## PRIMARY COUNTING BLOCKS.

The design of this set is not only to serve as counters for the child, but also to teach form, size, comparison of volume, composition and division or analysis. It contains 242 blocks of exact dimensions, as indicated by the following list:—

- 48 pieces of No. 1, which is a quarter brick,  $\frac{1}{2}$  in. x  $\frac{1}{2}$  in. x 1 inch.
- 48 " " " 2, " " " half "  $\frac{1}{2}$  in. x 1 in. x 1 inch.
- 48 " " " 3, " " " half "  $\frac{1}{2}$  in. x  $\frac{1}{2}$  in. x 2 inches.
- 48 " " " 4, " " " whole "  $\frac{1}{2}$  in. x 1 in. x 2 inches.
- 48 " " " 5, " " " 1 inch cube.
- 2 " " " 6, " " " 2 inch cube.

The whole set, with directions, is nicely put up in a strong, finely-polished wooden box, with partitions.

\*Price, per box, \$1.25

## CUBICAL COUNTING BLOCKS.

We offer one-inch cubes, in boxes and in bulk, plain and in the six standard colors. These cubes represent the third kindergarten gift, and can be used in a great variety of ways for the study of form and design, as well as numbers and fractions.

	Price.	Postage.
1000 assorted colored cubes, in bulk, . . . .	*\$5.50	
1000 plain cubes, in bulk, . . . .	*4.50	
100 colored cubes, in paper box, . . . .	.60	.30
100 plain cubes, in paper box, . . . .	.50	.30
27 colored cubes, in paper box, . . . .	.18	.10

## DU SHANE'S FIGURE CARDS.

These cards have been prepared for primary-school practice in learning to read number combinations at sight. Any school-room device which helps secure rapid and correct results in mental number work is welcomed, both by teachers and the public. Thousands of people who were not properly drilled in this respect during childhood add with difficulty all their lives, and difficult adding is very liable to be incorrect. This remark is measurably true of subtraction, multiplication and division.

The set comprises thirty cards, about two and a half by three and a half inches, twenty-seven of which are printed on each side, with a different combination of digits. The other three cards contain common arithmetical signs.

The use of the set is very simple. The teacher takes a card at random, and quickly holding it before the class, asks for names of figures, their sum, difference, product or quotient, meanwhile working the same problems herself by means of the small index figures in the right-hand corner, on the side next to her, which are duplicates of the large figures on the opposite side of the card. The exercise can be made very entertaining and instructive to little ones, if carried on rapidly and with spirit.

	Price.
12 boxes, . . . . .	*\$2.50
Sample box, by mail, . . . . .	.25

## KENDALL'S CHROMATIC NUMERAL FRAME.

No. 1, is an elegant frame with turned lower bar and improved screw and socket handle, durable in every way. There are twelve wires with twelve balls each, in the six standard colors, two wires of each color being placed together.

\*Price, each, \$0.75

No. 2, is in the same style as No. 1, but with ten wires of ten balls each. and three colors, red, yellow, and blue.

\*Price, each, \$0.65

No. 3, is a square bar-frame, with pin and socket handle, well made and finished. It has twelve wires and 144 balls in six colors, the same as No. 1.

\*Price, each, \$0.65

No. 4, is in the same style as No. 3, and contains ten wires with 100 balls in three colors, as in No. 2.

\*Price, each, \$0.50

All the numbers have heavy, well-straightened, polished, tin-plated wires, with polished balls and well-finished frames.

## LARGE PEGS FOR COUNTERS.

Wide-awake primary teachers are constantly on the alert for new objects to help them in number work. We are very fortunate in being able to offer them a line of large wooden pegs, an inch and a quarter long and an eighth of an inch square, made to represent a mammoth shoe-peg. We ship these pegs in six standard colors, a thousand in each box, at a price which makes them the cheapest counters that can be bought.

Price, in paper box, \$0.15; postage, \$0.09

## PRIMARY PEG BOARDS.

We manufacture a neat wooden board, about six inches square, with a hundred holes drilled in squares of half an inch, for use in arranging small colored pegs in a variety of artistic or symmetrical forms. The children can take up this occupation as a part of their class work, by imitation of blackboard diagrams or from dictation by the teacher, or individually, as busy work.

We sell round pegs, about an inch long and in six colors, to go with the boards. We also furnish the ordinary shoe-peg in colors, at a less price. This peg, being square, does not, of course, fit the holes of the board as accurately as the other, neither has it an exact standard of length. We ship the boards in bundles of one dozen each, and as it takes a hundred pegs to fill a board, two boxes, each holding a thousand pegs, are required for every bundle.

	Price. Postage.	
1 dozen boards, . . . . .	*\$1.75	
1000 round pegs, in paper box, . . . . .	.20	\$0.04
3000 square pegs, in paper box, . . . . .	.15	.11

## PARISH'S PRIMARY NUMBER TABLETS.

These tablets are printed on substantial cardboard, and in two sizes, one being four inches by two and the other five inches by two and a half. They have different combinations of blue and red dots and are intended for review purposes and to establish a clear idea of numbers and their relations in the minds of children in the lowest grades. The smaller set is used as a part of number work in the first half-year of school life and the box A contains ten tablets. The large set B consists of twelve tablets and is for use during the second half-year.

By this system of teaching pupils learn the analysis into equal parts of all numbers as high as twelve, and into any two unequal parts of all numbers as high as six, during the first half-year. The work is continued through the second half-year on the same principle, as far as twenty-seven, the limit of the fifth kindergarten gift. In this way the two unequal parts of all numbers as far as ten are learned, by the blocks, inch-cubes and other objects, and the whole subject is reviewed and fastened in the mind by the tablets.

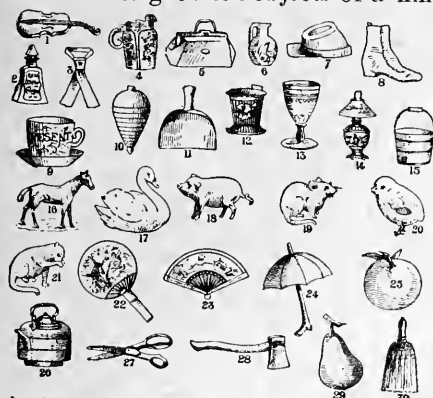
The advantage gained by using the tablets over the ordinary method of review by oral questions is that number appeals to sight instead of hearing, and leaves a more vivid impression.

With each set will be found brief suggestions for using the tablets.

	Price.	Postage.
Set A, cardboard tablets, per envelope, . . . . .	\$0.12	free
Set B, cardboard tablets, per envelope, . . . . .	.15	free

## REED'S CARDBOARD OBJECTS.

The teacher needs a set or sheet for each pupil in number work, every set consisting of ten objects of a kind. She will gladly cut the different objects from the sheets herself, for the sake of the help they will afford her. Each child having received a set takes from it the particular number which he is studying and proceeds to group that number in a way to illustrate the problem under consideration. If, for instance, he wishes to demonstrate that four and two are six, he arranges his horses or caps so as to correspond to this grouping and then conforms his number problems to the picture before him.

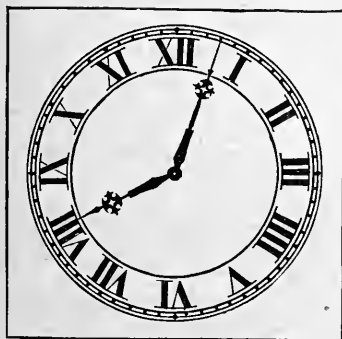


This assortment of cardboard objects comprises thirty different sheets. These sheets are sold by the dozen and should always be ordered by the numbers given in the above cut. If, for example, a sheet of ten lamps is wanted, the number 14 must be given in the order.

Price, per dozen sheets, \$0.12; postage, \$0.05

## THE EDUCATIONAL CLOCK DIAL.

These dials are for teaching time and are made in two sizes, one for the teacher and the other for the children. The dial intended for the



teacher consists of a clock face, mounted on a suitable support, with regular clock hands, which can be moved independently of each other. The face or circle is about twelve inches in diameter and the mount fourteen inches square, so that the dial can be distinctly seen from any part of a large schoolroom, either in the hands of the teacher or as it hangs on the wall.

On the back of these teacher's dials is printed a series of illustrations and descriptions of the prominent methods for marking time used in different ages, showing how the earliest division of time was made

by simple observations of the sun, and also the different devices subsequently invented for the same purpose, which will serve as a text for various instructive talks by the teacher.

The child's clock dial has a face four and a half inches in diameter, on thick cardboard, with movable steel hands.

Any teacher wishing a lesson on teaching time will find it in "Helps for Ungraded Schools," which we publish and sell for 25 cents, and which contains many useful hints for the use of educational material.

	Price.	Postage.
12-inch dial, cloth-bound and varnished, each, . . . . .	\$0.50	\$0.20
12-inch dial, on thick card, each, . . . . .	.25	.12
4½-inch dial, on thick card, each, . . . . .	.12	.02
4½-inch dial, per dozen, . . . . .	1.25	.16

## EDUCATIONAL TOY MONEY.



We are making this money just as we have been doing for the past twenty years. The material and denominations of our present money are the same as they have always been, the designs alone being different from those which had to be dropped because the government objected to them. This money is approved by the authorities and answers the educational purposes for which it is made, very well. It is sold in boxes having movable trays, one for each denomination, with amounts representing about \$100. Or if wanted in quantities we will quote special rates.

Price, per box, \$.25

## "BUYING AND SELLING."

This is in every sense an educational game. The box contains toy money representing about \$100 and thirty-six pictures of common-place commodities, such as a dozen eggs, a cord of wood, pound of coffee, ton of coal, etc., which are intended to be bought and sold as substitutes for the articles which they represent. The box also includes slips of manilla paper for making paper bags to hold bran or saw dust and be duly labeled as representing a variety of goods, unless the youthful merchants are allowed to fill them with the "real" things. Four sheets of printed labels are provided to be cut up so that the name of each article shall be on a separate slip, and the collection is rounded out by adding a form on which to make the paper bags and careful directions as to how it should be done, together with a printed list of the prices, in case the local price of any article is not known.

Price, each, \$.50

## BRADLEY'S FACSIMILE BUSINESS FORMS.

The contents of this set is as follows: Receipt for money on account; receipt for money in full of all demands; note—payable at bank; indorsed note; individual bank check; company bank check; certified check; draft unpaid; accepted draft; paid draft; certificate of deposit; itemized bill of goods; monthly statement; telegram sent; telegram received; stock certificate; coupon bond; business letter.

All of these forms are beautifully engraved and lithographed on superior paper, the same that is used by the best business houses. The notes, drafts and checks are shown with all the indorsements which appear on business paper that has actually passed through the banks and been returned to the makers. Each form representing a cash value bears the stamp, "No Value," so as to prevent its possible fraudulent use. The whole set of eighteen forms is attractively put up in an envelope.

Price, per set, \$.50; postage, \$.04

## PRACTICE BLANKS.

We also offer a collection of receipts, notes, checks and drafts in packages, each containing fifty of the same kind to be used with the Business Forms. They are printed from the same plates as the facsimile forms, but spaces are left for local names and dates, so that the children can make all the indorsements required as the blanks are passed from hand to hand. The list of blanks is made up of Receipts, Notes, Individual Bank Checks, Company Bank Checks, Certified Checks and Drafts. In ordering be careful to state just what forms are wanted, as we do not sell assorted packages.

Price, per package, 50 of one kind, \$.10; postage, \$.03

## THE SPRINGFIELD TRACING LEAVES.

This set of writing and tracing leaves is designed to be used for supplementary writing or busy work, and originated with Miss Anna E. Hill, supervisor of penmanship in the Springfield, Mass., public schools, who offers it as an entirely new method of teaching penmanship by combining reading and writing.

The words and sentences in the "Primary Writing and Tracing Leaves" have been very carefully selected from lists employed by teachers in the reading lessons, and from the various First Readers in general use throughout the country. When using them writing means something to the child in the beginning of his course, and becomes a part of his daily work; whereas by the old method the first six months of his school life were devoted to making slanting straight lines, right and left curves, and the thirteen short letters.

	Price.	Postage.
Per set, in envelope . . . . .	\$0.10	
Per dozen . . . . .	.75	.12

## SCHOOL SCISSORS.

We can offer to our customers a line of School Scissors which will satisfy all ordinary demands. The "Daisy" Scissors has black handles and very blunt points, but is a good tool for the price at which it is sold.

The "Daisy Improved Scissors" is a superior article, and fitted for any school-room work.

In response to a repeated demand, we have had an especially fine scissor manufactured, known as the "J. L. H. Scissor," which can be used for any purpose.

All the scissors are of steel, the "J. L. H." being a particularly fine quality.

"Daisy" Scissors, per dozen . . . . .	\$0.75
"Improved Daisy," per dozen . . . . .	1.25
"J. L. H.," per dozen . . . . .	2.50

## GEM PENCIL SHARPENER.

1st. It sharpens equally well both Lead and Slate Pencils.

2d. It does not break the leads.

3d. Any boy can run it.

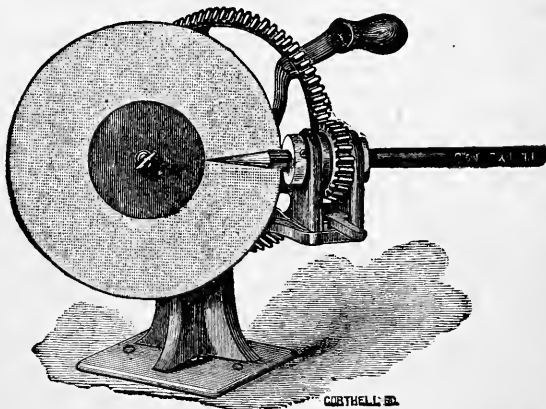
4th. A long or short bevel can be obtained without altering the machine.

5th. The chuck for holding the pencil is automatic, adjusting itself to pencils of any ordinary size.

To sharpen a pencil: Push the pencil through the chuck, pressing the end against the disc, and bring to a point by a few revolutions of the crank.

A package of one dozen sandpaper discs is put up with each machine, and should last for a term, at least. Additional packages, if desired, 20 cents each. The weight of machine when boxed and ready for shipment is seven pounds.

Price of Gem Pencil Sharpener, \$3.50



## OBJECTIVE FRACTIONS.

Many devices have been used as aids for teaching fractions and the necessity for some concrete presentation of the subject to young children seems assured. The three following devices have been thoroughly tested, and while each has merits exclusively its own, all have the quality of economy which is important, if each pupil is to have his own material.

### BRADLEY'S FRACTION DISKS.

These consist of cardboard disks, each of which is printed in sections of various colors, showing the circle divided into equal parts. There are six disks, showing wholes, halves, thirds, fourths, sixths and eighths.

The Teacher's set consists of six disks seven and one-half inches in diameter.

The Pupil's set consists of disks four inches in diameter, cut up to the same fractional parts.

The larger disks are to be held up by the teacher before the class, and the smaller ones to be used by the pupils.

Teacher's set, price per set, \$0.30; postage, \$0.06

Pupil's set, price per set, \$0.12

### MRS. SHELDON'S FRACTION CIRCLES.

As the name indicates this scheme is based on the divided circle. Circular colored cards have printed on them radial lines dividing the surface into sectors of various sizes, to represent the fractions from one-half to one-twelfth. Each card is slitted from circumference to center along one of the lines, and there is also a plain white card which is slitted. When the white card is properly joined to a colored card it may be rotated so as to expose to view more or less of the fractional sectors. There are also circles of tough paper similarly printed which may be folded by the pupils. Each set in an envelope.

#### THE TEACHER'S SET.

Six colored cards and one white one, with twelve paper circles constitute the teacher's set.

Price, per set, \$0.25; postage, \$0.09

#### PUPIL'S SET.

Twelve paper circles are contained in the pupil's set.

Price, per set, \$0.15; postage, \$0.05

### "OBJECTIVE FRACTIONS" RULERS.

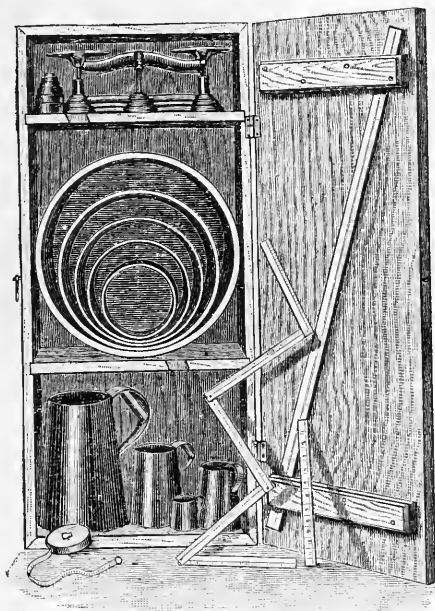
This device for teaching fractions objectively can be used as effectively as the Fraction Disks, and is of even greater value in all work involving a comparison of the different features. The unit is a ruler twelve inches long and half an inch wide. Each set consists of ten such rulers, divided respectively into 2, 3, 4, 5, 6, 8, 9, 10, 12 and 15 equal sections, the alternate sections on each ruler being colored to make the division more marked.

Provided with a set of these rulers, a child can master the idea of a fraction with ease, learn to know at sight each fraction shown, quickly change fractions to larger, smaller and smallest terms and find the common measure of different fractions. He is then ready for all simple work in addition, subtraction, multiplication and division of fractions.

Price, per set, \$0.10; postage, \$0.02



## CABINET OF WEIGHTS AND MEASURES.



## LIST OF CONTENTS.

- 1—A set of Fairbanks balance scales.
  - 2—A set of weights from 1 lb. down to  $\frac{1}{2}$  oz.
  - 3—A set of standard oak measures, well-finished, sealed and varnished, 1 quart, 2 quarts, 4 quarts, 8 quarts and 16 quarts.
  - 4—A set of tin liquid measures, four pieces, 1 gill, 1 pint, 1 quart, 1 gallon. These are made without lips or flanges, to better convey a correct impression of actual size, and are neatly japanned.
  - 5—A fifty-ft. tape measure in brass-bound, durable case.
  - 6—A good hard-wood yard-stick accurately graduated to inches and eighths on one side, and on the other to fractions of a yard.
  - 7—A foot-rule containing inches graduated to the following fractions:—Fifths, tenths, twentieths, fortieths, sixths, twelfths, twenty-fourths, forty-eighths, eighths, sixteenths, thirty-seconds and sixty-fourths.
  - 8—A folding meter, showing decimeters, centimeters and millimeters.
  - 9—A large protractor-scale, 16 inches long, for measuring angles and for laying them out on the blackboard.
- Well wrapped for shipping by freight or express. \*Price, \$10.00
- The style and quality of all this material is of a high grade, suitable in appearance and accuracy for the use intended.
- The following articles may be conveniently added, as there is room for them in the cabinet:—
- 10—A cubical liter measure, made very accurately, of heavy stock, and well japanned to match the other liquid measures, and a balance weight accompanying it for the purpose described below. Price, \*\$0.60
  - 11—A set of metric weights, from 1 kilogram to 10 grams. \*1.50

## A MANUAL DEMONSTRATION OF THE MENSURATION OF SURFACES AND SOLIDS.

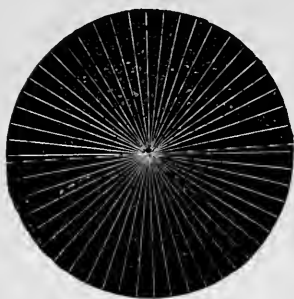


Fig. 1.

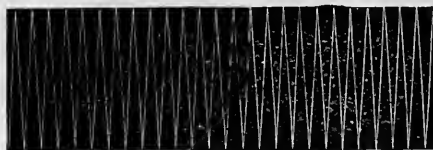


Fig. 2.

### AREA OF THE CIRCLE.

This apparatus for illustrating the different problems of mensuration is the invention of L. W. Parish and is highly praised by those teachers who have put it to practical use. One exhibition of these simple manual demonstrations to a pupil who is studying mensuration, even before the mathematical demonstration is attempted, will impress the facts more firmly on his mind than weeks of drilling on formulas.

In the apparatus shown in figures 1 and 2 we have the manual demonstration that the area of a circle is equal to the radius, multiplied by one half the circumference. It consists of a large number of sectors, attached at their bases to a couple of pliable bands which can be joined together so as to make a circle with a diameter of eight inches, as represented in figure 1. If these two semi-circumferences are straightened out two comb-like forms are secured, and by inserting the teeth of one set between the teeth of the other set and closing the two together the rectangle shown in figure 2 is obtained. The base of this rectangle is the semi-circumference of the circle straightened out and its height the radius of the circle.

Price, per set, \$1.25 ; postage, \$0.15



Fig. 3.

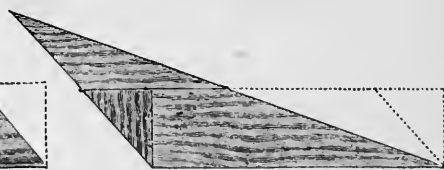


Fig. 4.

### AREAS OF TRIANGLES.

Figures 3 and 4 demonstrate mechanically that the area of a triangle is equal to its base, multiplied by one half its altitude. Figure 3 illustrates the problems when a perpendicular from the apex falls within the base and figure 4 when it falls outside the base. The former is more simple and the later more effective.

Both triangles are formed of boards which are divided and hinged in such a way that by simply swinging certain parts on their hinges the triangles become rectangles, twelve inches long and three inches high. When the triangles and the sectors which form the circle are ordered at the same time they will be packed together in a neat box.

	Price.	Postage.
The two triangles, . . . . .	\$1.25	\$0.15
The two triangles and the circle sectors, . . . . .	2.50	.25

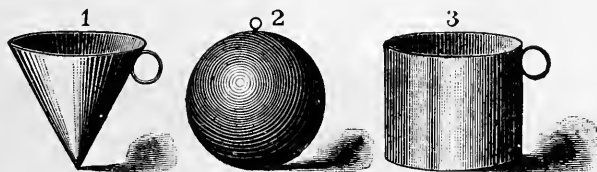


Fig. 5.

Fig. 6.

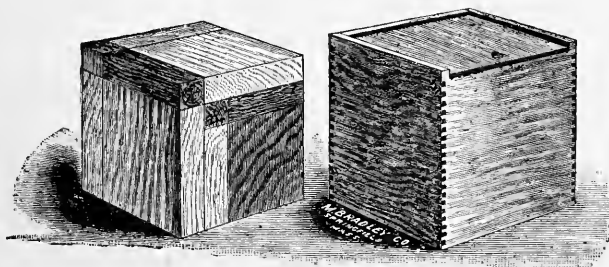
Fig. 7.

## CONTENTS OF CONE, SPHERE AND CYLINDER.

These three pieces demonstrate the relation between the contents of a cone, sphere and cylinder. Figure 5 is a conical cup, three inches in diameter at the top, and three inches deep. Figure 6 is a solid sphere. Figure 7 is a cylindrical cup, three inches in diameter and three inches deep.

Actual demonstration shows that the contents of the cone three times filled with water fills the cylinder, and that if the cylinder is filled with water and the ball entirely immersed there will remain in the cylinder just water enough to fill the cone. It follows therefore that the contents of the three are as the numbers 1—2—3. The pieces are packed together in a box.

Price, per set, \$0.75 ; Postage, \$0.20

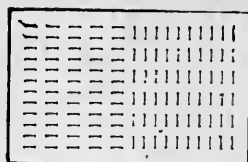


## CUBE ROOT BLOCKS.

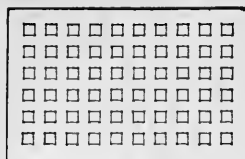
We sell a line of cube root blocks in which the several pieces are made with the same care and accuracy as our kindergarten blocks, which are acknowledged superior to any others ever produced.

The above illustration represents the No. 2 set, carrying the operation to two places. The solid cube in this set is one and a half inches square, making the complete cube two and a half inches. In the No. 1 set the solid cube is two inches square, with the completed cube two and a half inches. The blocks are made of three kinds of wood and the box is polished cherry, with strong lock-jointed corners.

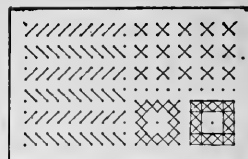
	Price.	Postage.
No. 1, to one place, per box, . . . . .	\$0.60	\$0.10
No. 2, to two places, per box, . . . . .	.80	.10



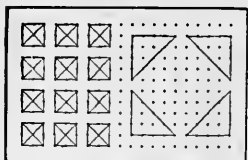
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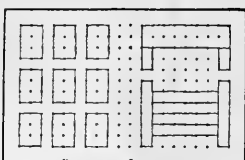
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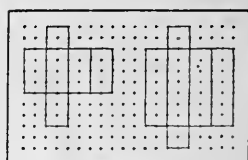
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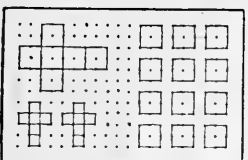
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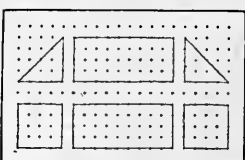
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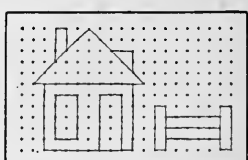
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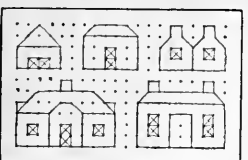
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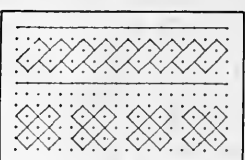
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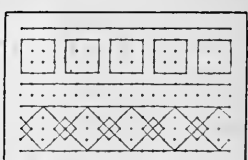
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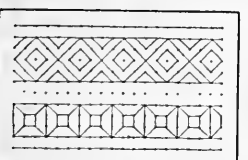
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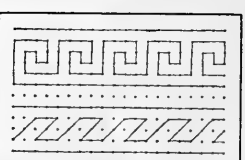
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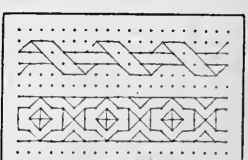
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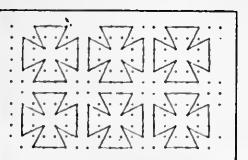
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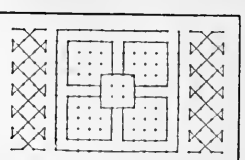
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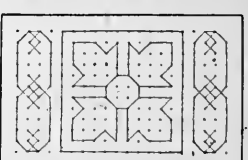
15



16



17



18

### PRIMARY PRICKED SEWING CARDS.

These cards are  $5 \times 3\frac{1}{2}$  inches in size and the entire surface is pricked in quarter-inch squares—all the cards being pricked exactly alike. The above illustrations are furnished as examples of a few of the many ways in which the cards may be worked. The numbers represent the different designs, and should not be used by customers in ordering cards.

## PRIMARY PRICKED SEWING CARDS.

Under this head we sell cards five inches by three and a half, pricked in squares of quarter-inches over the whole surface, which can always be used to advantage in connection with form-study and drawing. The geometric solids are now made the basis of all intelligent work in drawing, and the lines and plain figures found in these solids can be reviewed on the cards, and patterns worked out which have been previously designed with sticks and tablets. The diagram of designs accompanying this article is intended merely to furnish suggestive exercises, not to provide copies for school work. The designs are supposed to teach the formation of the following lines and figures :—

No. 1, Horizontal and Vertical lines.

“ 2, Squares.

“ 3, Oblique lines.

“ 4, Diagonals and Right-angled Triangles.

“ 5, Oblongs.

“ 6, Patterns of Square Prisms.

“ 7, Patterns of Cubes and Squares.

“ 8, Three views of Square and Triangular Prisms.

“ 9, Combinations of Triangles and Oblongs.

“ 10, Combinations of all forms previously used.

Nos. 11, 12, 13, 14, 15, Oblongs, Squares and Angles repeated horizontally.

No. 16, Surface Covering. Nos. 17, 18, Large figures illustrating repetition around a center, the use of a central form and all copies of designs that are first laid with tablets and worked out by means of parquetry and sewing.

Price, 100 cards, \$0.50; postage, \$0.15

## EMBROIDERY DESIGN CARDS.

These cards are four inches by five and a half and contain a large variety of outline designs, printed with a dot at each point where a stitch is to be taken. Holes must be pricked at the dots before the sewing begins. For the convenience of customers and economy in handling the cards are put up in envelopes and sold in seven sets, being grouped as follows :—

Nos. 1, 2, Animals. Nos. 3, 4, Figures of children, etc.

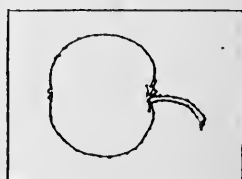
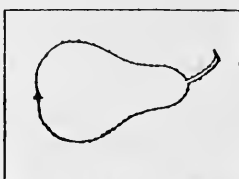
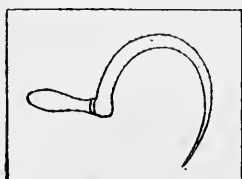
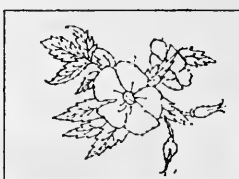
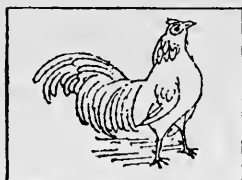
No. 5, Flowers. No. 6, Familiar objects, Hat, Drum, Vase, Pear, etc.

No. 7, Assorted designs from the other groups.

On the page of embroidery designs accompanying this article will be found reduced illustrations of the cards taken from the envelopes just mentioned, the top row representing samples from No. 1, the second row from No. 2, and so on down. The top row is represented as already worked and the rest of the pictures are shown with dots for pricking, as a preparation for working.

We also manufacture a line of Embroidery Cotton, in the six standard colors and a soft gray, to take the place of the costly embroidery silk which has been regarded necessary in kindergarten practice. It is on spools containing about three hundred yards each, assorted in red, yellow, blue, purple, green, orange and gray. We will send a sample of the cards and cottons to any address on receipt of a two-cent stamp.

	Price.	Postage.
A dozen envelopes of cards, 14 in each,	\$1.75	\$0.25
“ “ spools of cotton, assorted colors,	.60	.10
“ “ pricking needles in handle,	.35	.02
“ “ felt cushions for perforating,	.50	.25



*SUGGESTIONS FOR THE EMBROIDERY DESIGN CARDS.*

For description of the full list of the **Allen** Kindergarten Cards, for Outline Embroidery or Color Work, send for special circular.

## MISS ARNOLD'S NATURAL HISTORY SEWING CARDS.

These cards have been prepared by Miss Sarah L. Arnold of Minneapolis for use in connection with lessons regarding plants and animals, with special reference to the needs of primary classes and kindergartens.

The cards aim to provide industrial work which shall not only serve as a means of training the eye and hand, but also express in an interesting form the knowledge which the child gains in his study of natural history.

Now that elementary lessons in this science have found a place in every enlightened schoolroom these sewing cards afford an opportunity to illustrate and impress the facts learned through the pupils' observation of the objects which are being studied. The sewing should follow the intelligent observation of those objects.

The teacher's supervision of the work will in great measure determine its value. If her directions and questions are thoughtful the pupils will execute their part thoughtfully.

Miss Arnold's Natural History Cards are divided into four sets and pertain to Plants, Vertebrates, Birds and Invertebrates.

The set which pertains to Plants consists of fifty cards 4 x 5 inches in size, lithographed on substantial manila stock and sold in boxes. The sets pertaining to Vertebrates, Birds and Invertebrates each have twenty-five cards, 4½ x 5½ inches in size, lithographed on fine, white stock and sold in envelopes.

Each package contains a descriptive circular giving the contents of all the packages and directions for embroidering the designs and conducting the science lessons which should always go with the sewing. We will mail this circular to any address on application. The different sets are sold as follows:—

	Price.	Postage.
Plants, No. 1 box, 50 cards of one design, . . .	\$0.35	\$0.10
Plants, No. 2 box, 50 different designs, . . .	.40	.10
Plants, 12 cards assorted to order, . . .	.12	.02
Vertebrates, 25 cards in envelope, . . .	.30	.05
Birds, 25 cards in envelope, . . .	.30	.05
Invertebrates, 25 cards in envelope, . . .	.30	.05

## CARDS OF GEOMETRIC FORMS.

This set of cards is identical in size and material with those relating to Vertebrates, Birds and Invertebrates, although it does not belong to the series of sewing cards designed by Miss Arnold. The twenty-five cards are intended to be used with lessons in elementary form-study and this is the list:—

Sphere and Hemisphere, Cylinder, Cube, Square Prism, Triangular Prism, Hexagonal Prism, Cone, Square Pyramid, Hexagonal Pyramid, Ellipsoid and Half-ellipsoid, Ovoid and Half-ovoid, Circles with Diameters and Radii, Oblong, Square with Diameter and Diagonals, Half-square and Equilateral Triangle, Isosceles Triangle, Scalene and Obtuse-angle Triangles, Hexagon and Pentagon, Designs in Circles, Designs in Squares, Designs in Equilateral Triangle, Designs in Hexagon and Designs in Pentagon.

Price, per set \$0.30; postage, \$0.05

## BIBLE SEWING CARDS.

In response to many requests from parents and Sunday School workers we offer two sets of sewing cards which pertain to objects frequently named in the Bible. They are lithographed on excellent white stock and the designs can be artistically worked out with colored silk, thread or worsted. The cards of set A are  $5\frac{1}{2} \times 7\frac{1}{2}$  inches, and these are the twelve subjects:—

Map of the Bible World, The Tabernacle, Altar of Incense, Altar of Burnt Offerings, Table of Shewbread, Golden Candlestick, High Priest, Woman at the Well, Shepherd, Camel, Temple, Map of Palestine. The cards of set B are  $4 \times 5\frac{1}{2}$  inches, and the subjects are as follows: Tablets of the Law, Trumpets, Horn, Harp, Flute, Cymbals, Lamp, Book, House, Olive Tree, Cedar of Lebanon and Palm Tree.

	Price.
Set A, 12 cards in envelope, . . . . .	\$0.30
Set B, 12 cards in envelope, . . . . .	.20

## COLUMBIAN SEWING CARDS.

These cards are like set A of the Bible cards as regards size and stock and are intended for use in the home and primary school. These are the twelve subjects: The Santa Maria, Route of Columbus, First Sight of Land, Landing of Columbus, Columbus in Chains, North American Indian, Wigwam or Tepee, Bow, Arrows and Tomahawk, Calumet and Wampum, Puritan, Liberty Bell, United States Flag. Each envelope has printed on it directions for pricking the cards and working the outlines. For a description of the material which can be used to advantage in doing this work see the kindergarten numbers 172, 174, 194, 196, 197 and 199 of this catalogue.

Price, per set, \$0.30

## COOLEY'S WRITING EMBROIDERY CARDS.

The object of these cards is to provide means for the adaptation of form study to writing. They help to fix in the child's mind a correct image of the form of the script letters, while furnishing him agreeable desk work. He should work the type-forms of the letter in one color and the remainder in some other color that harmonizes with it. There are seventy-eight different cards, representing the small letters and capitals of the alphabet, many of the capitals being given in both the business and standard forms, and ten figures.

Fifty cards of one letter are put up in a box for school use. Boxes are also provided that have the twenty-six capitals and small letters and the ten figures, making sixty-two pieces. We also publish a set of the writing cards for family use, consisting of an assortment of different letters, with a felt pad, pricking needle and embroidery cotton in the assorted colors, a very desirable outfit for the nursery. We will also sell the cards by the dozen, each customer to make her own selection. Before ordering send for a descriptive circular, which shows the different forms of the capitals.

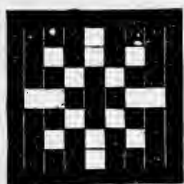
	Price.
Per dozen cards, . . . . .	\$0.12
No. 1 box, 50 cards of one letter or figure, . . . . .	.40
No. 2 box, sample set of letters, 62 pieces, . . . . .	.50
No. 3 box, assorted letters and sewing outfit, . . . . .	.30



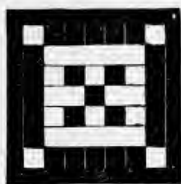
## PRIMARY SCHOOL DIAGRAMS. TO BE USED WITH MRS. HAILMANN'S MATS.



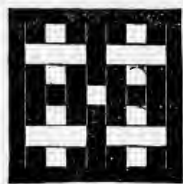
7-7



7-8



7-9



7-10

In the kindergarten, where the pupils are few and the teacher has an abundance of time to devote to each exercise, it is customary to do the paper weaving by dictation, and every movement of the children follows a direction from the teacher. But in a large primary school, where the teacher must have supervision of at least half a dozen different things at the same time, those methods are often impossible. As a help to such teachers the box of Primary School Diagrams is added to our list of material, at the suggestion of Miss Rose Jackson of Hartford, Ct.

It contains forty-eight diagrams, a few samples of which are given above, printed in black and white, on substantial cardboard. Each piece is about nine inches square, with holes at the top, so that it can be readily hung on the blackboard or wall, in sight of all the children. After the pupils have mastered the first principles of weaving the teacher can hang up one of these diagrams and tell a part of the school to work out with their mats and fringes the pattern it contains, while she is busy with another class. For a description of Mrs. Hailmann's Graded Mats see the kindergarten department of this catalogue, Nos. 1200 to 1216.

Price of diagrams, per box, \*1.00

## PEN LETTERING.

This portfolio contains twenty-four sheets of Alphabets, ancient and modern, plain and ornamental, for the use of draftsmen, engineers, architects and students of industrial drawing in all its branches. The collection is intended to supply them with a large variety of letters in such styles as can be perfectly imitated with a pen.

Many of the most valuable sample books of alphabets now published are printed from finely-engraved plates so that nearly all of the letters depend for their pleasing effect on fine line-shading which cannot be imitated with a pen, although these effects may sometimes be approximately produced by India-ink washes. Such methods are not, however, suited to the ordinary practical work of the present day.

In this assortment there are a number of modern styles which are adapted to maps, plans, machinery and architectural drawings. No attempt has been made to furnish an exhaustive line of alphabets for exact copying, the intention being to provide such a selection as may suggest many modifications suitable for a variety of uses. The fact that a given style of letter is included in the collection does not prove it to be in the best taste, as that is a question to be decided by each student or his teacher. These plates are issued unbound in a portfolio, because a large bound book of lettering is always so inconvenient for practical use in an office and the sheets are very apt to get detached from the binding.

Price, per set, \$0.25

## ARITHMETICAL SOLIDS AND GEOMETRICAL FORMS.

These pieces are quite different from the Geometrical Surfaces and Solids, although the box contains some of the same forms. The arithmetical combinations of the units represented by cubes are very valuable and the two will not come amiss in any school. The twenty-six pieces are put up in a wooden box and each numbered as follows:—

- |                        |                                    |
|------------------------|------------------------------------|
| 1 Sphere.              | 12 Cube (Eight times No. 11).      |
| 2 Hemisphere.          | 13 Cube (Eight times No. 12).      |
| 3 Prolate Spheroid.    | 14 Parallelopipedon.               |
| 4 Oblate Spheroid.     | 15 Parallelopipedon.               |
| 5 Pyramid and Frustum. | 16 Parallelopipedon.               |
| 6 Cone and Frustum.    | 17 Parallelopipedon.               |
| 7 Cylinder.            | 18 Oblique Prism (3 pieces).       |
| 8 Triangular Prism.    | 19 Parallelopipedon.               |
| 9 Square Prism.        | 20 Parallelopipedon.               |
| 10 Hexagonal Prism.    | 21 Carpenter's Theorem (4 pieces). |
| 11 Cube.               |                                    |

\*Price, per box, \$2.00

## SUPPORT FOR DRAWING MODELS.

The Springfield Support for Drawing-models can be readily adjusted and also removed from the desk at pleasure. The neat wooden table on which the models lie, within easy reach of the pupil sitting at the desk, is supported by a wooden rod which passes through a hole in the top of the desk. A metallic cam attached to the top of the desk, at the corner opposite the ink-well, holds by friction the rod and the table at any desired height. The table can quickly be removed from the rod and may be placed in the desk, or collected with those from the other desks and be kept in a suitable cupboard when not in use. The rod is then dropped to the level of the desk-top, so that nothing is seen above the desk.

\*Price, each, \$0.25

## THE SPRINGFIELD PANTOGRAPH.

The present educational methods create a general demand for various conveniences for copying engravings and drawings when the subject to be copied must be enlarged or reduced. For blackboard work many small engravings from books of geography, botany, geology and other branches of natural history can be used to advantage, provided they can be accurately and conveniently transferred to the board.

This pantograph is not a toy roughly constructed, such as have hitherto been in the market, but is an accurate instrument, at a low price. In its mechanical construction no care has been spared to make it of practical use. The holes in the bars are accurately spaced, drilled to fit the thumb-screw pivots and numbered to indicate the correct adjustment for any required size to which the design is to be enlarged or reduced.

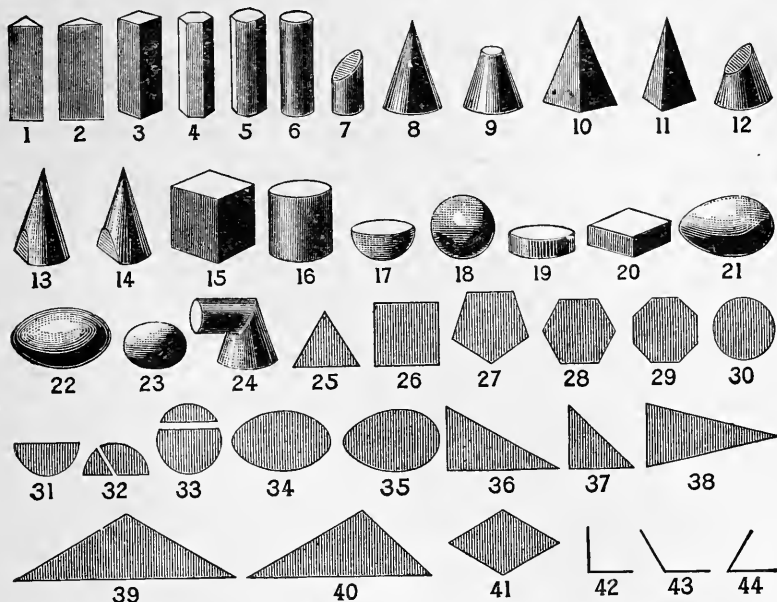
As regards certain details of construction and for convenience of manipulation the Springfield Pantograph is superior to anything of the kind which has ever been offered the public, even at a much greater cost.

Each instrument is accompanied by carefully-prepared directions for use.

Price, each, \$0.50; postage, \$0.05

## FOR OBJECT TEACHING.

EACH FORM IS STAMPED WITH ITS NUMBER IN THE LIST.



This set of forms embraces the common surfaces and solids which are found in elementary geometry, together with a simple illustration of angles. As shown in the above cut, there are twenty-three solids, seventeen surfaces and three angles, the latter being represented by bent wires. The solids and surfaces are accurately and neatly made from well-seasoned hard wood.

The curves of the Conic Sections, Ellipse, Parabola and Hyperbola are very clearly indicated by the plain surface on three separate cones—the fourth showing the circle as a rectangular section.

## No.

## SOLIDS.

- 1 Equilateral Tri. Prism.
- 2 Right-angled Tri. Prism.
- 3 Square Prism.
- 4 Hexagonal Prism.
- 5 Octagonal Prism.
- 6 Cylinder.
- 7 Cylinder with Diagonal Sect.
- 8 Cone.
- 9 Truncated Cone.

- 10 Pyramid, Square Base.
- 11 Pyramid, Triangular Base.
- 12 Cone Truncated Diagonally.
- 13 Cone, with section showing the Hyperbola.
- 14 Cone, with section showing the Parabola.
- 15 Cube.
- 16 Cylinder.

- 17 Hemisphere.
- 18 Sphere.
- 19 Circular Plinth.
- 20 Square Plinth.
- 21 Ovoid or Egg.
- 22 Ellipsoid.
- 23 Oblate Spheroid.
- 24 Combination of 7 and 12.

## SURFACES.

- 25 Equilateral Triangle.
- 26 Square.
- 27 Pentagon.
- 28 Hexagon.
- 29 Octagon.
- 30 Circle.
- 31 Semi-circle.

- 32 Two Unequal Sectors.
- 33 Two Unequal Segments.
- 34 Ellipse.
- 35 Oval.
- 36 Right-angled Scalene Triangle, having its two acute angles  $30^\circ$  and  $60^\circ$ .

- 37 Right-angled Isosceles Tri.
- 38 Acute-angled Isosceles Tri.
- 39 Obtuse-angled Isosceles Tri.
- 40 Obtuse-angled Scalene Tri.
- 41 Rhombus, Diamond or Lozenge, made from two equilateral triangles.

## ANGLES.

- 42 A Right Angle, formed by a bent wire representing a line.

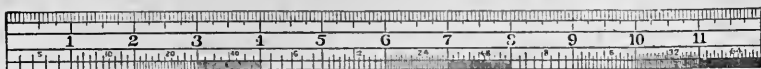
- 43 Obtuse Angle.

- 44 Acute Angle.

The fact that an oblique section of a cone is an ellipse, as well as the oblique section of a cylinder, is shown by combining Nos. 7 and 12.

PRICE, neatly put up in a strong wooden box . . . . . \$2.00

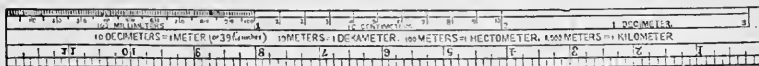
## THE MECHANIC'S RULE—BASSWOOD.



One edge of this rule is divided into sixteenths of inches, for ordinary use. On the other edge are twelve different divisions, from 5 to 64, accurately engraved by a screw machine, a variety found elsewhere only on the expensive scales of the mechanic or draftsman. This rule is a very convenient help in any schoolroom, being especially useful in giving the children a definite idea of the minute fractions of an inch.

Price, each, \$0.01; postage, \$0.01

## THE METRIC RULE—BASSWOOD.



On one edge of this rule, which has been termed the International Rule in former editions of this catalogue, inches and eighths are printed, and the other edge contains the metric measure, while in the center is found the metric measures for long distances. This rule is valuable as a constant presentation of the principal quantities in the metric system, where it is taught, and gives a ready comparison of the two lineal measures.

Price, each, \$0.01; postage, \$0.01

The postage for a dozen of either of the Basswood Rules is four cents.

## THE PRIMARY SCHOOL RULE.

This rule is for use in the lowest grades and is graduated in quarter inches, so that the little folks who handle it need not be taxed with finer divisions. It has been prepared at the request of prominent school officers and teachers.

Price, each, \$0.03; postage, \$0.01

## THE GRAMMAR SCHOOL RULE.

This rule is graduated in sixteenths of inches and in every way well finished. There is nothing like it for standing the ordinary wear and tear of schoolroom service and giving the pupils an accurate idea of a foot.

Price, each, \$0.03; postage, \$0.01

## THE MANUAL TRAINING RULE.

This is a hand-polished rule, about three-quarters of an inch wide, with one edge beveled, graduated by steel dies accurately engraved by machinery. This rule is divided into sixteenths of an inch, the graduations being plainly marked.

Price, each, \$0.06; postage, \$0.01

When ordered by the dozen the postage on the Grammar School Rule or the Manual Training Rule will be ten cents.

## THE INDUSTRIAL DRAWING RULE.

This is a thin rule, one inch wide, with one edge beveled and graduated to inches and sixteenths. In addition to its use for making measurements this wide, thin rule is designed to go with draftsmen's triangles in elementary industrial drawing.

Price, \$0.10; postage, \$0.02

## FLAT DRAWING SCALES.

This set is made of rock maple, in the ordinary form of box-wood scales. It comprises three pieces, each of which has two beveled edges, and each edge contains a scale, so that the set gives six graduated edges.

No. 1 contains the 12-inch rule in sixteenths on one edge and the 1-inch scale on the other edge.

No. 2 contains the 3-inch scale and the  $1\frac{1}{2}$ -inch scale.

No. 3 contains the  $\frac{3}{4}$ -inch scale and the  $\frac{1}{4}$ -inch scale.

Price, each, of Nos. 1, 2 or 3, \$0.15; postage, \$0.02

When ordered by the dozen the postage on the Industrial Drawing Rule or the Flat Drawing Scales will be thirteen cents.

## THE ARCHITECT'S TRIANGULAR SCALE.



This scale is not only good enough for all educational purposes, but is a practical article for the regular use of architects and draftsmen. All the scales are carefully inspected and selected at each stage of manufacture, being finely-finished with a good hand-rubbed shellac polish and provided with a manilla case, to serve as a permanent protection for the edges. When ordered by the dozen the postage will be twenty-three cents.

Price, each, \$0.50; postage, \$0.03

All the rules and scales in this list not designated as Basswood are made from carefully selected rock maple and are accurately graduated.

## A PROTRACTOR SCALE.

For other angles than those provided in the triangle, a protractor is necessary to complete the line of instruments for blackboard work. It is furnished in the rectangular form of a protractor scale of heavy tough paper-board, sixteen inches long and about five inches wide, representing a circle of sixteen inches diameter, divided to degrees. Price, each, \$0.25

## OUR YARDSTICK.

A good hard-wood yardstick, graduated down to inches and eighths on one side, affords a light and accurate measure. Price, each, \$0.10

## GRADUATED OPEN-FRAME TRIANGLE.

The graduated open-frame triangle gives the necessary angles,  $90^\circ$ ,  $60^\circ$ , and  $30^\circ$ , on a large scale, together with inches and subdivisions. This instrument is twenty and three quarters and twelve inches on the two legs respectively, is very accurate and strongly made, and is exceedingly useful for blackboard work, or in laying out large diagrams for any purpose.

\*Price, each, \$0.50

## THE BLACKBOARD COMPASSES.

The work of constructing a circle, if of any value, must be done mechanically, hence the need of compasses in the primary schoolroom, as well as in the higher grades. We have in stock two styles of dividers Nos. 1 and 2. The first is a fine article, with patent adjustable crayon-holders and metal points, so constructed that either leg will hold a crayon or a point. No 2, represented in the cut, is the best compasses for the price, in the market, each leg being adapted to receive a crayon or a point.



	Price.
No. 1, each, . . . . .	*\$1.00
No. 2, each, . . . . .	*.50

### NO. 30 MAPLE RULES.

On one edge of this rule, inches and eighths are printed, while the other edge contains the metric measure, and in the center is found the metric measure for long distances. This rule, while similar to the basswood metric rule, is much more serviceable, being one and one-quarter inches wide, made of maple and varnished.

Price each, 3 cents; postage, 1 cent.

### NO. 35 MAPLE RULES, PLAIN EDGE.

These rules are of extra heavy maple, carefully graduated, thus making very serviceable rules. They are made both twelve and fifteen inches long.

Price, each, 12 inch	.	.	.	.	.	\$0.05; postage, \$0.02
" " 15 "	.	.	.	.	.	.08; " .02

### NO. 35 MAPLE RULES, BRASS EDGE.

These rules are the same as the No. 35 plain, with the addition of a brass edge. This, under some circumstances, makes them more useful. These rules come in two lengths, twelve and fifteen inches.

Price, each, 12 inch	.	.	.	.	.	\$0.10; postage, \$0.02
" " 15 "	.	.	.	.	.	0.15; " .02

### THE BEAM COMPASSES.



This instrument is devised to meet the demand for durable compasses at a low price. The length of the circle's diameter is regulated by moving the crayon-holder up or down the slide.

\*Price, each, \$0.25

### THE PERFECTION CARDBOARD PROTRACTOR.

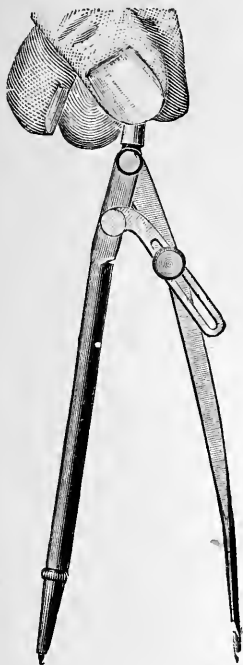
This instrument is four inches in diameter, and is made from cardboard prepared expressly for this purpose, and graduated with a very accurately engraved die.

Price, per dozen, by mail, \$0.30

### THE SPRINGFIELD SCHOOL COMPASSES.

This instrument is five and one-half inches long, thereby covering a range of work sufficient for all demands, without an inconvenient spread of the legs.

Price, each, 35 cents; postage, 3 cents.



## THE ARTIST'S PENCIL COMPASSES.

Never give beginners poor tools to work with. If a good and experienced workman needs good tools, how much more does the learner, if we expect him to produce good results.

The Artist's Compasses is a step in that direction; made in the best manner, and of the best material, with brace and set screw to keep the leg in any required position, and the best adjustable lead point, of just the right degree of hardness.

**PRICE OF COMPASSES, 25 CENTS.**

**EXTRA LEADS, 10 CENTS PER DOZEN.**

## DRAWING STENCILS FOR OUR LITTLE ARTIST.



We have a new line of stencils in American designs which are much more attractive to American children than the foreign collections. We publish two sets, No. 1 and No. 2, bearing the title "Drawing Stencils For Our Little Artist." Each box contains twenty stencils, with a stock of practice drawing paper. A few of the best designs are duplicated in both boxes, but most of them are different in the two numbers.

Price, No. 1 or No. 2, each, \$0.25; postage, \$0.08

## THE SPRINGFIELD INDUSTRIAL DRAWING KIT.

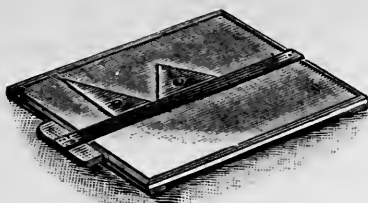


FIG. 1.

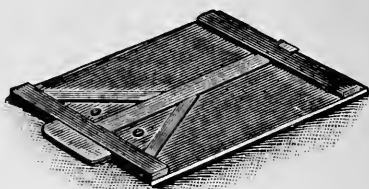


FIG. 2.

The Springfield Industrial Drawing Kit is intended for use in grammar and high schools, the family, the office and the shop.

Fig. 1 shows the top side of the board furnished with a pad of paper and with the T square and the triangles in position for use. Fig. 2 represents the back of the board with the T square and the triangles locked securely in place, so as to form one complete article when not in use, which may be conveniently packed away in the schoolroom or carried to and from the home or evening drawing class.

The draftsman or architect fastens the sheet of paper on which he works to his drawing board with thumb tacks, but this method is both expensive and inconvenient in public school work for which the smaller sizes of kits are designed, and hence for these sizes pads of paper are prepared. A pad consists of ten or twenty sheets of drawing paper and is slightly glued to the board at each corner. As fast as a sheet is finished it is separated from the remainder of the pad and usually placed in a portfolio or large envelope of such size as to receive the sheet without folding.

Each pupil has his own envelope or portfolio, so as to keep his finished work of a term neatly for reference and examination. The pads are sold separately and can easily be attached to the boards with fish glue. The kits are made in four sizes as quoted below, but pads are neither made nor recommended for sizes larger than No. 2 Kit.

KITS.				Price.
No. 1, 10 x 12 inches,	.	.	.	*\$0.30
No. 2, 13 x 19 "	.	.	.	*.50
No. 3, 17 x 22 "	.	.	.	*.75
No. 4, 17 x 22 " finer finish,	.	.	.	*1.00
No. 5, 18 x 24 "	.	.	.	*1.25

PADS.				Price.
For No. 1 Kits, made from No. 20 paper, 20 sheets,	.	.	.	\$0.04
For No. 1 Kits, parchment drawing paper, 20 sheets,	.	.	.	.05
For No. 1 Kits, Springfield white drawing paper, 20 sheets,	.	.	.	.07
For No. 1 Kits, machine hand-made paper, 10 sheets,	.	.	.	.06
For No. 2 Kits, No. 20 paper, 20 sheets,	.	.	.	.08
For No. 2 Kits, parchment drawing paper, 20 sheets,	.	.	.	.10
For No. 2 Kits, Springfield white drawing paper, 20 sheets,	.	.	.	.14
For No. 2 Kits, machine hand-made paper, 10 sheets,	.	.	.	.12
Envelope for No. 1 Kit, each,	.	.	.	.02
Portfolio for No. 1 Kit, press-board covers,	.	.	.	.06
Portfolio for No. 2 Kit, board covers,	.	.	.	.35
Portfolio for No. 3 Kit, board covers,	.	.	.	.50

Samples of drawing paper mailed, for a two-cent stamp.



**Best Manilla Drawing Paper**, with hard, rough surface, well adapted for practice in all ordinary work. Size, 24 x 36 inches. Price per ream, \$4.80. Cut 9 x 12 inches, 60 cents per ream. Cut 6 x 9 inches, 30 cents per ream.

**J. L. H. Manilla Drawing Paper**, same as the above, only lighter in color.

**"Our Own" White Sketching Paper**. This is a clean white paper, with a hard, rough finish, good for either pencil or pen drawing, for free-hand or mechanical work. Size, 24 x 36 inches. Price per ream, \$9.00. Cut 9 x 12 inches, \$1.20 per ream. Cut 6 x 9 inches, 60 cents per ream.

**"Our Own, Extra Heavy" White Sketching**, same as above in quality, but a very much heavier paper. Size, 24 x 36 inches. Price per ream, \$12.00. Cut 9 x 12 inches, \$1.50 per ream. Cut 6 x 9 inches, 75 cents per ream.

**Patent Hand-made Drawing Paper**. This is a superior paper, of the best white stock, thoroughly sized and having a patent surface, in imitation of the best hand-made linen papers. It will bear all the erasing required in mechanical drawing, and is an excellent paper for water-color work. Size, 24 x 36 inches. Price per ream, \$12.00. Cut 6 x 9 inches, 9 x 12 inches, 12 x 18 inches, if desired.

**Samples of any of the above papers sent on application.**

**Extra Heavy Manilla Modelling Paper**, or "Oak Tag," for making objects, in packages of 100 sheets (9 x 12 inches), per package, 50 cents.

Two packages of this paper will supply a class of 50 pupils.

Price for other sizes furnished upon application.

## DRAWING BOOKS.

6 x 9, Manilla, per 100, 20 pages . . . .	\$2.00
9 x 12, Manilla, per 100, 20 pages . . . .	4.00
6 x 9, "Our Own" Paper, per 100, 20 pages . .	2.50
9 x 12, "Our Own" Paper, per 100, 20 pages . .	5.00

**Sketch Books**, 4½ x 7, Manilla Paper, board covers,  
per dozen . . . . . \$1.80

**Small Sketch Books**, 4½ x 6, 20 pages, white  
paper, per 100 . . . . . 2.00

**Charcoal Pads**, 12 x 18, each . . . . . .60

**Sketching Pads**, "Our Own" Paper, white, 6 x 9  
inches, each . . . . . .10

Any other size and style made to order.



## PATTERNS FOR SNOW FLAKE CRYSTALS.

Sixty Patterns designed by M. L. Hartigan, and used by Miss A. L. Page of the Boston Schools in her work. They will be printed on heavy card; twelve designs on each card.

Price, complete, \$1.00.

## DRAWING FROM OBJECTS.

*First.*—WOODEN MODELS are first presented, of different sizes, of the Cube, Sphere, Cylinder, and other geometric solids, with which each pupil should be supplied.

### PRICE LIST OF SEPARATE PIECES OF WOODEN MODELS.

#### SOLIDS—Teacher's Size, A.

Cube, 4 inches face, solid . . . . .	\$0.40
Cube, 4 inches face, incised faces . . . . .	.45
Cube, 4 inches face, quartered diagonally . . . . .	.60
Sphere, 4 inches diameter, solid . . . . .	.60
Sphere, 4 inches diameter, halved and quartered . . . . .	.75
Sphere, 4-inch diameter, divided and dowelled . . . . .	1.00
Hemisphere, 4 inches diameter . . . . .	.50
Cylinder, 4 x 8 inches, solid . . . . .	.60
Cylinder, 4 x 8 inches, divided and dowelled . . . . .	1.00
Hollow Cylinder, 4 x 8 inches, divided and dowelled . . . . .	1.25
Hollow-flanged Cylinder, 4 x 8 inches, divided and dowelled . . . . .	1.40
Cone, 4 x 8 inches, solid . . . . .	.60
Cone, 4 x 8 inches, divided and dowelled, . . . . .	1.00
Double Cone, 4 x 8 inches . . . . .	.75
Double Cone, 4 x 8 inches, divided and dowelled . . . . .	1.15
Square Prism, 4 x 8 inches . . . . .	.60
Square Prism, 4 x 8 inches, divided diagonally . . . . .	.90
Square Plinth, 2 x 6 inches . . . . .	.40
Oblong Block, 4 x 3 x 8 inches . . . . .	.50
Square Pyramid, 4 x 8 inches . . . . .	.60
Square Pyramid, 4 x 8 inches, divided and dowelled . . . . .	1.00
Right-angled Triangular Prism, 4 x 5 x 8 inches . . . . .	.60
Equilateral Triangular Prism, 4 x 8 inches . . . . .	.60
Pentagonal Prism, 4 x 8 inches . . . . .	.65
Hexagonal Prism, 4 x 8 inches . . . . .	.65
Hexagonal Pyramid, 4 x 8 inches . . . . .	.75
Octagonal Prism, 4 x 8 inches . . . . .	.65
Circular Plinth, 2 x 6 inches . . . . .	.40
Cubical Steps, 4 inches face . . . . .	.50
Flight of Three Steps, 8 inches long, 2 inches tread, 1½ inches riser . . . . .	.75
Cross, 2 x 6 inches . . . . .	.30
Chimney Model, 4 x 8 inches, divided and dowelled . . . . .	1.00
Egg and Egg Cup, 4 x 8 inches . . . . .	2.00
Spool, 6 x 7 inches . . . . .	1.50
Frame (a) 12 inches square, 4 pieces halved . . . . .	.40
Frame (b) 12 inches square, 4 pieces mortised . . . . .	.40
Bracket Model, 8 x 12 x 1 inch . . . . .	.75
Pulley Model, diameter 5 inches, divided and dowelled . . . . .	1.25
Vase (a) 8 x 12 inches . . . . .	3.00
Vase (b) 8 inches high . . . . .	.75
Vase (c) 8 x 12 inches . . . . .	3.00
Vase (d) 6 inches high . . . . .	.75
Ovoid, 4 x 6 inches . . . . .	.75
Ellipsoid, 4 x 6 inches . . . . .	.75

#### SOLIDS—Pupils' Size, B.

Cube, 2 inches face . . . . .	\$0.05
Square Prism, 2 x 4 inches . . . . .	.05

#### SOLIDS—Pupils' Size, B.—Continued.

Square Pyramid, 2 x 4 inches . . . . .	\$0.05
Right-angled Triangular Prism, 4 inches long . . . . .	.05
Equilateral Triangular Prism, 4 inches long . . . . .	.05
Sphere, 2 inches diameter . . . . .	.05
Hemisphere, 2 inches diameter . . . . .	.05
Cylinder, 2 x 4 inches . . . . .	.05
Cone, 2 x 4 inches . . . . .	.05
Ellipsoid, 2 inches short diameter . . . . .	.05
Ovoid, 2 inches short diameter . . . . .	.05
Vase . . . . .	.05
Double Cone, 2 x 4 inches . . . . .	.05
Hexagonal Prism, 2 x 4 inches . . . . .	.05
Square Plinth, 3 x 3 x 1 inch . . . . .	.05
Circular Plinth, 3 x 1 inch . . . . .	.05

#### SOLIDS—Pupils' Size, C.

Cube, 1 inch face . . . . .	\$0.03
Square Prism, 1 x 2 inches . . . . .	.03
Square Pyramid, 1 x 2 inches . . . . .	.03
Right-angled Triangular Prism, 2 inches long . . . . .	.03
Equilateral Triangular Prism, 2 inches long . . . . .	.03
Sphere, 1 inch diameter . . . . .	.03
Hemisphere, 1 inch diameter . . . . .	.03
Cylinder, 1 x 2 inches . . . . .	.03
Cone, 1 x 2 inches . . . . .	.03
Ellipsoid, 1 inch short diameter . . . . .	.03
Ovoid, 1 inch short diameter . . . . .	.03
Vase . . . . .	.03

#### TABLETS—Teacher's Size, A.

Circle, 12 inches diameter . . . . .	\$0.25
Square, 12 inches diameter . . . . .	.25
Broad Oblong, 12 inches long . . . . .	.25
Semicircle, 12 inches diameter . . . . .	.25
Right-angled Triangle, 12 inches long . . . . .	.25
Narrow Oblong, 12 inches long . . . . .	.25
Isoceles Triangle, 12 inches . . . . .	.25
Equilateral Triangle, 12 inches . . . . .	.25
Broad Ellipse, 12 inches . . . . .	.25
Narrow Ellipse . . . . .	.25
Oval . . . . .	.25

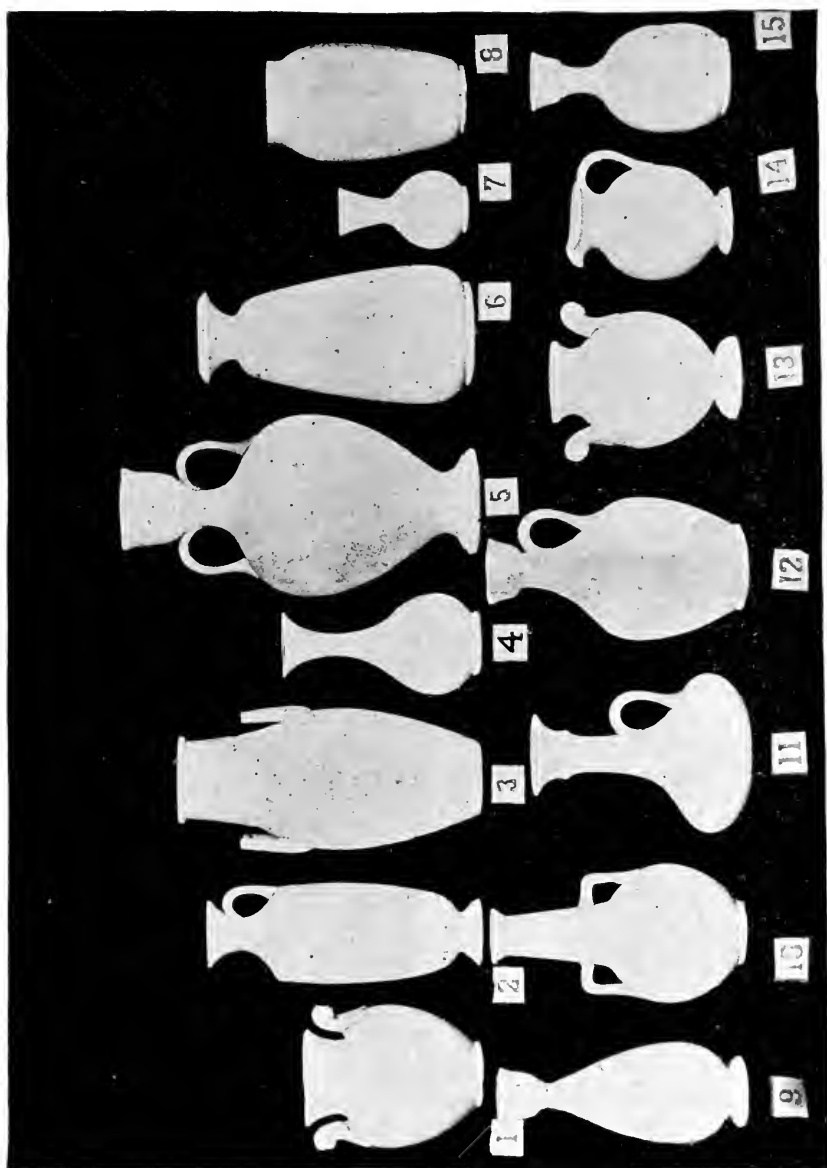
#### TABLETS—Pupils' Size, B.

Circles, per hundred . . . . .	\$1.00
Semicircles, per hundred . . . . .	1.00
Squares, per hundred . . . . .	1.00
Oblongs, per hundred . . . . .	1.00
Triangles, per hundred . . . . .	1.00
Ellipses, per hundred . . . . .	1.00
Ovals, per hundred . . . . .	1.00

#### TABLETS—Pupils' Size, C.

Circles, per hundred . . . . .	\$0.50
Semicircles, per hundred . . . . .	.50
Squares, per hundred . . . . .	.50
Oblongs, per hundred . . . . .	.50
Triangles, per hundred . . . . .	.50
Ellipses, per hundred . . . . .	.50
Ovals, per hundred . . . . .	.50

*Second.*—DRAWING COPIES on sheets about six inches square, comprising the Square, Circle, Oval, and Ellipse—one form on each sheet, price per 100 . . . \$0.25



These elegant VASE FORMS have been selected with great care, and are made especially for MODELS in drawing and for ornamentation.

No.	1.	Height.	Price.	No.	6.	Height.	Price.	No.	11.	Height.	Price.
"	2.	9 $\frac{1}{2}$ "	2.00	"	7.	4 $\frac{1}{2}$ "	1.50	"	12.	8 $\frac{1}{4}$ "	\$1.75
"	3.	10 $\frac{1}{2}$ "	3.00	"	8.	6 $\frac{3}{4}$ "	1.50	"	13.	6 $\frac{1}{4}$ "	2.00
"	4.	6 $\frac{1}{4}$ "	1.00	"	9.	7 $\frac{1}{4}$ "	1.50	"	14.	5 "	1.75
"	5.	12 $\frac{3}{4}$ "	4.00	"	10.	8 $\frac{1}{4}$ "	2.00	"	15.	6 $\frac{1}{4}$ "	1.00

Many teachers have found it difficult to get a line of colored pencils suited for primary-school work, because a plain crayon is too frail and not sufficiently neat, and wax crayons in woods have been too expensive, so that for several years we sought in vain for an assortment which would, in every respect, meet their wants.

But we are now selling a superior line of free-working colors, strong in texture and put up in finely-polished woods, corresponding in colors with the pencils, at a price which is remarkably low, considering how economically the pencils can be used when manufactured in this way.

### PENCILS 7 INCHES LONG.

In ordering from the following list it will be sufficient to give the numbers, as an indication of the color required, being careful to state that pencils 7 inches long are wanted.

- 718 Blue, Ultramarine, standard.
- 710 Blue, Prussian blue.
- 738 Blue, greenish hue.
- 703 Blue, greenish hue, light tint.
- 726 Blue, slightly darker shade of 710.
- 735 Violet.
- 716 Violet, tint, slightly lighter than 735.
- 724 Violet, shade.
- 731 Yellow Brown (Umber.)
- 714 Shade of 731.
- 750 Crimson, or Violet hue of Red.
- 712 Red.
- 743 Red, tint.
- 725 Red, shade.
- 717 Red, darker shade.
- 704 Orange.
- 733 Orange, yellow hue.
- 747 Orange, greenish hue.
- 742 Shade of 747 in brownish hue.
- 702 Yellow.
- 733 Yellow, Orange hue.
- 706 Green.
- 745 Green, yellow hue.
- 713 Green, blue hue.

Price, each, \$0.06 ; Postage, \$0.01

### PENCILS 4½ INCHES LONG.

We sell an assortment of pencils 4½ inches long in the six colors, Red, Blue, Yellow, Green, Orange, Violet. In ordering specify that the pencils 4½ inches long are desired and mention the color, or else say "assorted in box."

	Price.	Postage.
1 pencil, . . . . .	\$0.02	\$0.01
6 pencils, assorted in box, . . . . .	.10	.02

In addition to the pencils listed above we have a composition slate pencil in wood, in the three colors, Red, Yellow and Blue.

Price, for the three, \$0.05 ; Postage, \$0.02

## THE BRADLEY COLOR OUTFIT.

All color effects seen in nature are produced by reflected sunlight, and color in art is the imitation of these effects by the use of pigmentary colors. The Bradley Scheme of Color Instruction is based on the adaptation of the scientific laws of color as discovered in nature to the analysis and combination of pigmentary colors in art; and is original in its details.

This system is concisely stated in the following four propositions:—

### FIRST, SIX SPECTRUM STANDARDS.

We select as standards, the six locations in the solar spectrum best expressing the six colors, Red, Orange, Yellow, Green, Blue and Violet. For these standards the most intense expression of each color is chosen; as, for example, the reddest Red, greenest Green, etc.

### SECOND, PIGMENTARY STANDARDS.

We produce the best possible pigmentary imitations of these six spectrum standards, which with Black and White, furnish eight pigmentary standards.

### THIRD, DISK COMBINATIONS.

We adopt Maxwell Color Disks made in these eight pigmentary standards, and by the rotation of these on the color wheel produce an indefinite number of other colors which may be definitely named in terms of the eight pigmentary standards.

### FOURTH, COLORED PAPERS.

These papers comprise about 175 different colors, classified as follows: "Pure Spectrum Scales," "Black, White and Grays," "Broken Spectrum Scales," "Engine Colored Papers." The first three classes are coated papers, colored on one side and with plated finish. The fourth class comprises special engine-colored papers, colored in the pulp and therefore alike on both sides. These several classes furnish the most complete collection of educational colored papers yet made.

The peculiar features of this system are the selection of definite scientific standards in the solar spectrum and the combination of pigmentary imitations of these standards by means of the rotating disks, to produce and accurately name innumerable other colors found in nature and art. This system is based on the well known fact that all colors in nature are derived from sunlight by absorption and reflection, and is in opposition to the old theory of three primary colors, red, yellow and blue and the claim that all natural colors may be imitated in pigmentary colors by the combination of red, yellow and blue pigments.

This is the only system of elementary color instruction based on the science of chromatics and embodying a nomenclature by which tests and experiments made in one school or class can be recorded and compared with similar experiments made and recorded in other places.

Our outfit comprises a GLASS PRISM, COLORED PAPERS manufactured specially for education in color, the COLOR WHEEL with a line of MAXWELL COLOR DISKS in various sizes, the COLOR TOP, a miniature color wheel for pupils' use, and several COLOR CHARTS for explaining the principles of color combinations.

### GLASS PRISMS.

We offer three sizes of prisms which give excellent results considering the moderate cost. By the use of either one a small spectrum can be shown on the wall of any schoolroom having a sunny exposure during any part of the day.

## THE EDUCATIONAL COLORED PAPERS.

This collection comprises nearly 175 colors, as shown in our sample book, divided into four sections by title leaves, as follows: "Pure Spectrum Scales," "Black, White and Grays," "Broken Spectrum Scales," "Engine Colored Papers." These several lines of papers are prepared in accordance with the principles of the Bradley Scheme of Color Instruction which has already been accepted by a large number of the leading colleges and universities as the basis for experiments in their psychological laboratories.

The section, "Pure Spectrum Scales" contains coated papers in spectrum colors with tints and shades.

The second division contains White and Black and four kinds of Grays, Neutral Gray, Warm Gray, Cool Gray and Green Gray.

The third section called "Broken Spectrum Scales" comprises twelve spectrum scales of three tones each, in which the spectrum color in each scale is subdued by grays, thus producing a line of colors which are very beautiful when artistically combined.

The fourth division of the book entitled "Engine Colored Papers" consists of a special line of stained papers, not coated, and hence of the same color on both sides, and thus specially adapted to paper folding. This line furnishes the first engine colored papers in families or scales ever made for educational uses. Stained papers cannot be produced in the pure spectrum colors, but owing to the method of manufacture are somewhat broken, but this line furnishes six families or scales of three tones each, namely, Red, Orange, Yellow, Green, Blue and Violet, making eighteen in all, with twelve other beautiful Browns and Grays, and Black and White.

A sample book of the above complete line of colored papers will be mailed to any address on receipt of three two cent stamps.

Each book contains samples of about 175 colors classified and divided by title leaves. On each sample is imprinted its name or number by which it may be ordered in full sheets, or in smaller sizes, provided a considerable quantity is wanted. For particulars the reader is referred to the price list on the following page and also to the directions given in the Kindergarten Department of this catalogue, in connection with No. 220 and the several numbers relating to Parquetry, Paper Cutting and Weaving.

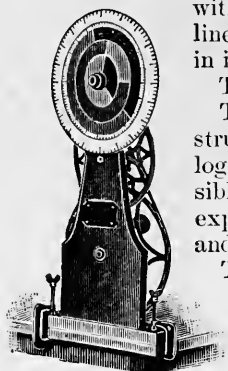
The engine colored papers are of special value in the kindergarten folding exercises, and for directions regarding them the reader is referred to No. 223, in the Kindergarten Department, together with the several numbers pertaining to Parquetry, Paper Cutting, Weaving and Paper Folding.

Green papers have long been regarded as unsafe, because they contain arsenic, and as color manufacturers are introducing the same ingredient into many other colors it has become impossible for any dealer to guarantee any papers bought in the market as free from this poisonous chemical, because for ordinary use there is no objection to the arsenic. Our papers, however, are all made to order and guaranteed free from arsenic.

## THE COLOR WHEEL.

The Bradley Color Wheel is the result of gradual evolution in the adaptation of the old and crude color mixer of the early physical laboratory, to the requirements of that practical investigation which is now demanded in the study of all subjects related to science or physics. Color perception is caused by physio-psychological effects which have until recently received

scant attention in the lower grades of education and consequently the means for securing and recording accurate knowledge on the subject have been exceedingly limited. The Bradley Color Scheme has been prepared with direct reference to the relations of color in art to this line of investigation and instruction, and the Color Wheel in its present form is a valuable acquisition in this work.



Three grades of the Color Wheel are now made.

The **LABORATORY WHEEL** is a complicated and finely constructed machine for making very accurate physio-psychological tests regarding color perceptions, in which it is possible to gradually change the relative proportions of the exposed surfaces of two combined disks during rotation, and to record the same on a graduated scale.

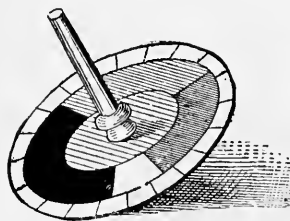
The **HIGH SCHOOL WHEEL**, represented in the accompanying illustration is the popular machine for general investigation and demonstration in the higher grades of grammar and high schools. Each machine is provided with four sizes of disks, eight of each size, and graduated disks. In the engraving three sizes of disks are shown in combination, with the graduated disk at the back.

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### THE COLOR TOP.

At the suggestion of a prominent educator a miniature color top shown in the accompanying illustration has been prepared. With this the pupil



may at pleasure repeat very many of the experiments which may have been presented to the class with the larger "Color Mixer," and this personal work will effectively fix in the pupil's mind the facts and thereby prepare the way for an understanding of the theories involved in the combinations. In truth the color top is a very fascinating plaything for adults as well as for the children.

With a color wheel in the hands of a trained teacher and a color top for each pupil such progress in color perceptions can be made as has never been possible by any other means.

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For the use of teachers we prepare a number of ready made charts relating to the subject of color.

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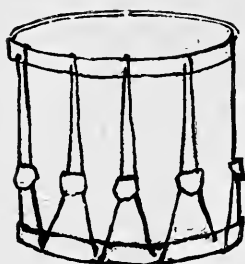
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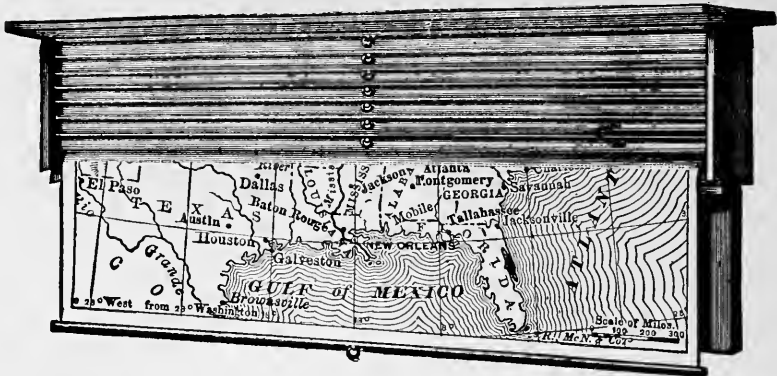
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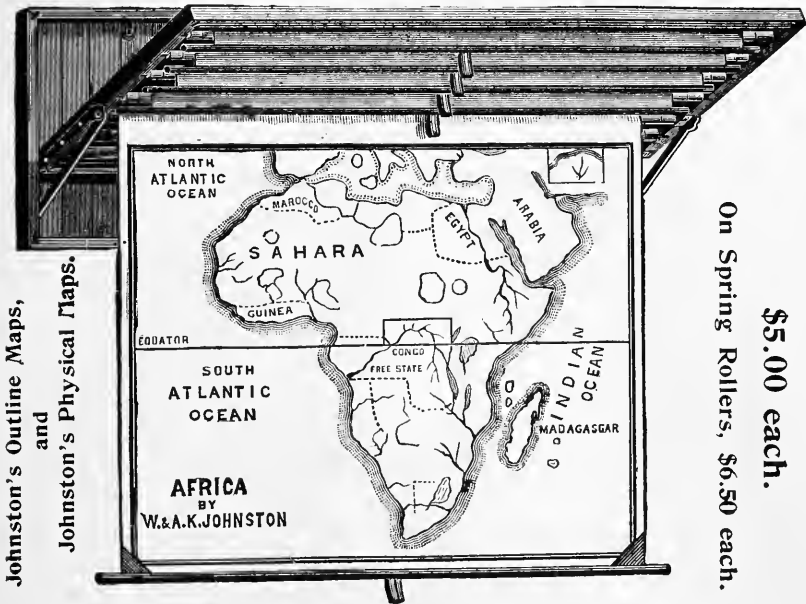
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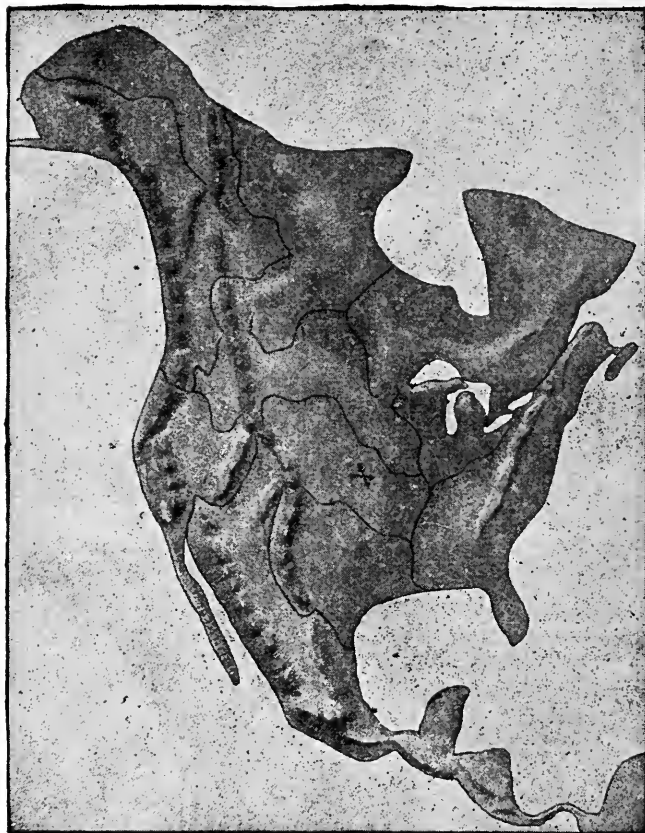
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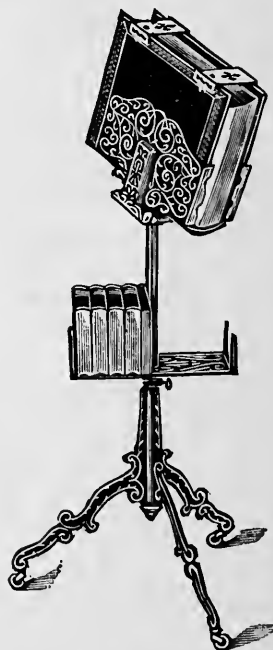


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We make the same map as above, with the same illuminated back, but mounted on paper-board instead of wood, and cut at random instead of on the state boundary lines. In ordering mention that this map is in a paper box.

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An outline map engraved especially for dissection and printed on heavy card-board. A cheap and valuable toy. In ordering mention that this map is in a paper box.

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Cut No. 4. — Low Bronze Frame.

## LOW BRONZE FRAME.

Size.	Style.	Price.
12 in.	Cut No. 4	\$25
16 "	" 4	50

This low bronze frame is a very desirable style of mounting, being both neat and durable.

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In all the sizes and styles of the terrestrial, are furnished at the same prices as terrestrial globes.

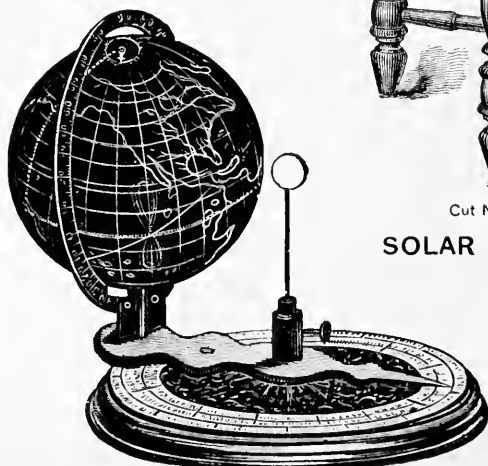
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Are charged extra with either kind, as follows:—

9½-inch Quadrant,	\$1.50
12 " " "	1.75
16 " " "	2.25



Cut No. 5. — Wood Frame, 4 Legs.



Solar Telluric Globe.

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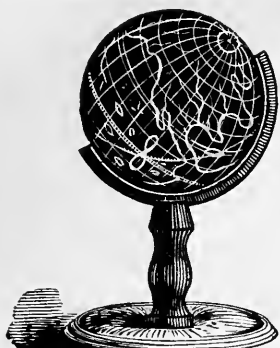
Price \$15; box and packing extra, 60 cents. Changes of seasons, variation of length of days, the position of the tropics and polar circles, and the reason for their being located where they are, can be clearly illustrated by this little instrument.



# THE JOSLIN GLOBES.

113

These are the best made and best finished globes in the market.



Cut No. 1—Half Meridian, on Pedestal Stand.

Size.	Style.	Price.	
6 inches.	Cut No. 1	\$5.00	
9½ "	" 1	12.00	
12 "	" 1	17.00	
6 "	" 2	10.00	
9½ "	" 2	17.00	



Cut No. 3.— Tripod.



Cut No. 2.— Wood Frame, 3 Legs.

12 inches ; style, cut No. 3,  
\$37.50 ;

16 inches ; style, cut No. 3,  
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18 inches ; style, cut No. 3,  
\$78.00.

This sixteen-inch globe is specially adapted to colleges, high schools, and academies, public and private libraries.

The map is very complete, and for fulness, accuracy, durability, and finish, is unequalled by any globe in the market.

These Standards are of metal, highly polished and nickel plated, with nickel plated meridian and horizon holder. They are the most showy and substantial table globes made, and are intended for the library or schools. Style, size, and price as follows. (Celestial globes same styles and prices as terrestrial globes.)

**Full Mounted.**

No. 96.	18-inch	. . . . .	\$35.00
No. 99.	12-inch	. . . . .	15.00
No. 102.	8-inch	. . . . .	10.00
No. 105.	6-inch	. . . . .	6.00

**Plain.**

No. 98.	18-inch	. . . . .	\$25.00
No. 101.	12-inch	. . . . .	8.00
No. 104.	8-inch	. . . . .	5.00
No. 107.	6-inch	. . . . .	2.50

**Meridian.**

No. 97.	18-inch	. . . . .	\$30.00
No. 100.	12-inch	. . . . .	10.00
No. 103.	8-inch	. . . . .	7.00
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**SLATED GLOBES.**

30-inch globes . . . . . net. | 24-inch, full mounted . . . . . net.  
All other styles of slated globes, prices same as terrestrial globes.



This cut shows our Hinged Globe Case, which is furnished with our eight and twelve inch globes. It is easily arranged as a cabinet in a schoolroom.

This Globe is very elaborate. The stand is of mahogany, oak, walnut, or cherry, as ordered, with nickel-plated meridian, compass in base and manual, and is designed for the finest libraries. Shipped in common case.

*Liberal Discount to the Trade.*



No. 94 $\frac{1}{2}$ , 18-inch.

Price - - - - - \$60.00

II c.—20-in. Scientific Globe, Plain Stand, \$55.00  
 III c.—20-in. School Globe, Plain Stand, 30.00  
 (Terrestrial or Celestial.)



V T.

**Liberal  
 Discounts  
 from  
 Catalogue  
 Prices.**



II C.  
 III C.

**RELIEF GLOBES.**



12-in. Relief Globe, \$24.00  
 15-in. " " 30.00

**SLATED GLOBES.**

20-inch Slated Globes, High Stand . . . . .	\$40.00
16-inch " " " " . . . . .	21.00
12-inch " " " " . . . . .	7.00
9-inch " " " " . . . . .	6.00
6-inch " " " " . . . . .	2.50
4-inch " " " " . . . . .	1.75



VII A.

6-inch Terrestrial Globe,  
 Complete, \$5.00.

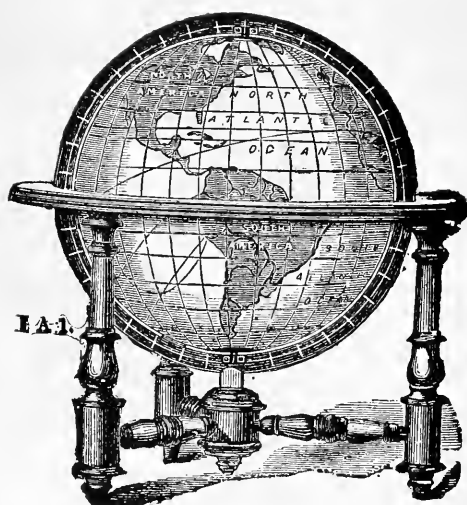
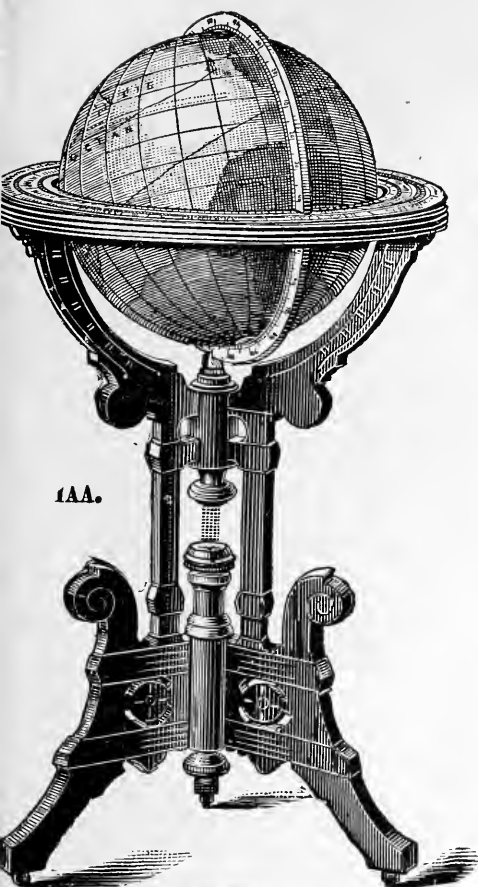


VIII B.

6-inch Terrestrial Globe,  
 Full Meridian, \$2.00.



6-inch Plain Stand,  
 Premium, \$1.25.



1 A 1.—20 inch Parlor Globe, low stand, complete, \$80. (Terrestrial or Celestial.)



V R.

1AA.—THE 20 INCH PARLOR GLOBE—\$100.00,

Both Terrestrial and Celestial. Mounted on ebonized wooden frame, 42 inches high, with Meridian, divided into half degrees, hour circle, Quadrant and Magnetic Needle.

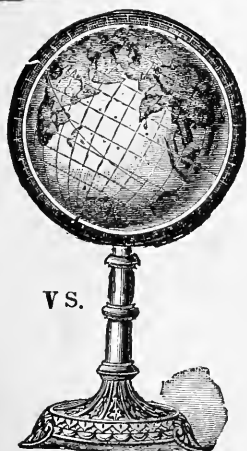
II A.—20 inch Scientific Globe, complete, Terrestrial or Celestial, \$75.00.

III. A.—20 inch School Globe, complete, \$55.00.

V. R.—12 inch complete School Globe, \$13.00.

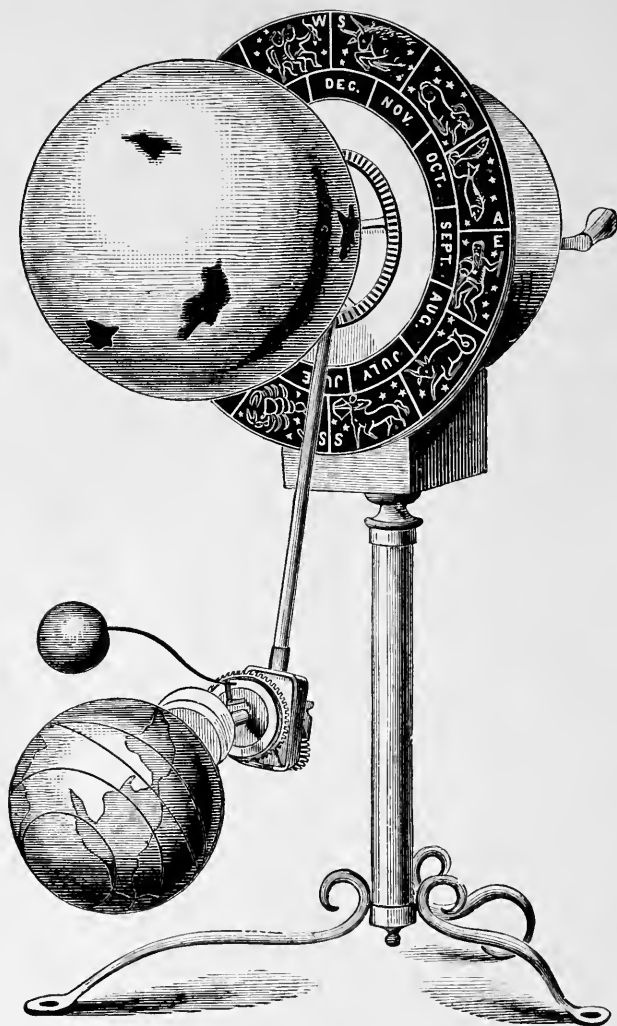
V s.—12 inch full Meridian Globe, \$8.00.

V r.—12 inch Plain Stand Globe, \$7.00.



V S.

LIBERAL DISCOUNT FROM CATALOGUE PRICES.



**PRICE REDUCED TO \$15.00.**

The Lunatellus is the Tellurian in a new form, and so improved as to illustrate the Astronomical phenomena of the Sun, Earth, and Moon in their natural order, with the Geography of the Earth always in its proper relation to them.

The expensive machinery, costing over \$65,000, with which these were made, has been destroyed, and **less than 400** of the instruments now remain unsold. **Order early**, if you would be sure of securing one **before they are gone**.

Send for Key, which gives 45 Illustrations of the various Phenomena resulting from the Revolutions of the Sun, Earth, and Moon.

# W. & A. K. JOHNSTON'S NATURAL HISTORY PLATES.

## FOR THE USE OF SCHOOLS.

(Adopted by the Principal School Boards.)

The object of this important work is to bring before children specimens of the whole Animal World on large and artistic plates. Teachers are thus enabled to describe the animals in the most clear and striking manner, and children cannot fail to be deeply interested.

The following advantages of this series may be noted:—

1. The Scale of the Plates is such that in an ordinary classroom every scholar is able to see and remark, from his place, all the details of the picture.
2. Each Plate, as a rule, contains only one animal, or a natural pair.
3. In all cases, where possible, the animals are drawn from nature.
4. The animals are represented in positions characteristic of their nature and habits.
5. The scenery amidst which they are depicted represents, as correctly as possible, the locality in which the animal is usually found.

**Anemones**, *Actinoloba Dianthus*. **Corals**, *Corallium rubrum*.

**Beaver**, *Castor fiber*.

**Bee**, *Apis mellifica*.

**Beetles**, *Staphylinus Erythropterus*, *Calosoma sycophanta*, *Necrophorus vespillo*.

**Boa Constrictor**, *Boa Constrictor*. **Rattlesnake**, *Crotalus durissus*.

**Brown Bear**, *Ursus Arctos*.

**Buffalo**, *Bos Americannus*.

**Capercaillie or Wood Grouse**, *Tetrao urogallus*.

**Cat**, *Felis domesticus*, and **Mouse**, *Mus musculus*.

**Chimpanzee**, *Simia Troglodytes*.

**Cockchafer**, *Melolontha vulgaris*. **Butterfly**, *Pontia brassicae* (also in earlier stages.)

**Condor**, *Sarcophamphus gryphus*.

**Cow and Calf**, *Bos taurus*.

**Crab**, *Cancer pagurus*. **Lobster**, *Homarus vulgaris*.

**Crocodile**, *Crocodilus cataphractus*.

**Cuttle-fish**, *Sepia officinalis*. **Snail**, *Helix pomatia*. **Oyster**, *Ostrea edulis*.

**Deer**, *Cervus*.

**Dog**, *Canis familiaris*.

**Donkey**, *Asinus tenuipus*.

**Dromedary**, *Camelus dromedarius*.

**Elephant**, *Elephas Africanus et Elephas Indicus*.

**Fowls** (Cock, Hen and Chickens), *Gallus Bankiva*.

**Fox**, *Vulpes vulgaris*.

**Frogs**, *Rana esculenta*.

**Goat**, *Capra hircus*.

**Golden Eagle**, *Aquila chrysaetus*.

**Goose** (Gander and Goslings), *Anseres*.

**Hare**, *Lepus timidus*.

**Heron**, *Ardea cinerea*.

**Horse**, *Equus caballus*.

**Kangaroo**, *Halmaturus giganteus*.

**Leech**, *Ilirudo medicinalis*. **Trichina**, *Trichina spiralis*. **Tapeworm**, *Tenia solium*.

**Lion**, *Felis Leo*.

**Lobster**, *Homarus vulgaris*. **Spider**, *Tege-naria-civilis*.

**Marten**, *Mustela martes*. **Otter**, *Lutra vulgaris*.

**Mole**, *Tulpa Europæa*. **Rat**, *Mus*. **Musk-Rat**, or **Musquash**, *Fiber Zibethicus*. **Hedgehog**, *Erinaceus Europæus*.

**Oriole**, *Oriolus galbula*. **Weaver Bird**, *Ploceus textor*.

**Ostrich**, *Struthio camelus*.

**Pelican**, *Pelecaus onocrotalus*.

**Pig**, *Sus scrofa*.

**Pike**, *Esox lucius*. **Carp**, *Cyprinus carpio*.

**Polar Bear**, *Ursus maritimus*.

**Raven** (Nest and Young), *Corvus corax*.

**Reindeer**, *Tarandus rangifer*.

**Scorpion**, *Buthus occitanus*. **Tarantula**, *Lycosa tarantula*.

**Seal**, *Phoca Greenlandica*.

**Shark**, *Scyllium catulus*.

**Sheep**, *Ovis*.

**Silkworm**, *Bombyx mori*.

**Silurus**, *Silurus glanis*. **Salmon**, *Salmo salar*.

**Snake**, *Tropidonotus natrix*.

**Stork**, *Ciconia alba*.

**Sturgeon**, *Acipenser sturio*. **Perch**, *Perca fluviatilis*.

**Tiger**, *Felis tigris*.

**Turtle**, *Chelonia mydas*.

**Vampire**, *Phyllostoma spectrum*. **Flying Fox** (or **Kalong Bat**), *Pteropus edulis*.

**Whale**, *Balæna mysticetus*.

**Wolf**, *Canis lupus*.

Others in Preparation.

**Size of each plate, 34x26 inches. Price on Cloth and Rollers, Varnished, \$1.50.**

**SAND MODELING TABLES**, with or without Drawer, with Stationary Tops, and with tops to raise to any angle, made to order.

**Price according to Size and Style.**

**PRIMARY TABLES** for blocks and toys also made of any desired size. Standard size, 72 x 30 inches.



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CAN BE EASILY APPLIED TO ANY STYLE OF SCHOOL DESK.

GIFFORD'S INK WELL, per dozen	\$2.00
ALBEE'S INK WELL, " "	2.25
CASE'S INK WELL, " "	2.50
COMMON GLASS INK WELL, per dozen	.50
IRON COVER, with hinge for common glass well	.50
BELL'S SWING COVER, Noiseless	.50
METALLIC INK WELLS, Glass Lined, complete	2.25
SCARLETT'S INK VENT, for pouring Ink	2.40

## TARR'S NOISELESS POINTER.

Patented August 14, 1883.

Section of pointer showing size of small end with rubber tip attached.



noise and saves expense. Price per dozen, net, three feet long, \$2.00.

Made from hard wood turned and polished, with a rubber tip securely fastened to the wood. Standard length, three feet. Prevents

## NICE HARD-WOOD POINTERS.

3 feet long, \$1.00 per dozen. 3½ feet long, \$1.25 per dozen. 4 feet long, \$1.50 per dozen. 5 feet long, \$2.00 per dozen.



**HICKOK'S  
POINTER**



This pointer has an illuminated point; the eye without effort follows the bright red tip — in fact, it is a perfect beacon, showing what is indicated clearly from any part of the room.

The rods are of hickory, highly polished; the colored tips are of sole leather, soft and flexible, securely

riveted in place. The pointer is supplied with a ring, and is in every way what a perfect article should be; above all, it is "A POINTER THAT POINTS."

Price, \$2.00 per dozen.

## YARDSTICK.

A good hard-wood yardstick accurately graduated to inches and eighths. Useful on the blackboard, and for general measurements. Price, ten cents.

## SLATE PENCILS.

The German Slate Pencils fluctuate so much in price that it is difficult to catalogue them definitely, but the different lengths, 5½, 6½, and 7½ inches, are always kept in stock. Also pencils covered with gilt paper. Prices will be quoted on application.

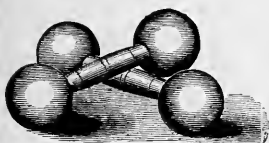
Soapstone Slate Pencils always in stock, and furnished at the lowest market prices. Lengths, 4½, 5, 5½, 6, 6½, and 7 inches.

Composition Slate Pencils, 6-inch, \$15.00 per case of 100 boxes.



Our Gymnastic Apparatus is made of well-seasoned wood, and polished. Dumb-bells and Indian Clubs are made of maple; Wands of Black Walnut; Hand-rings are very strongly made of three sections—black walnut, cherry, and maple. Besides great strength, they have the merit of beautiful appearance.

## WOODEN DUMB-BELLS.

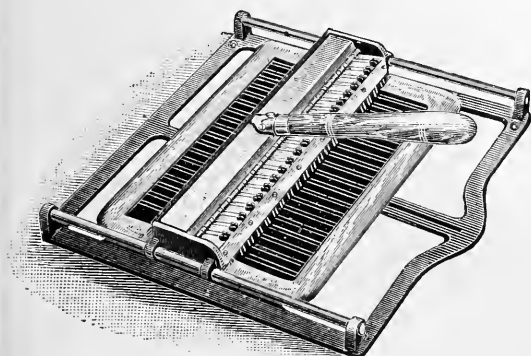


	PRICE.
1 $\frac{3}{4}$ -inch balls, 5 $\frac{3}{4}$ ins. long. Per pair, two pieces,	\$0.25
2-inch balls, 6 $\frac{1}{2}$ ins. long. Per pair, two pieces,	.30
2 $\frac{1}{4}$ -inch balls, 7 $\frac{1}{2}$ ins. long. Per pair, two pieces,	.35
2 $\frac{1}{2}$ -inch balls, 8 ins. long. Per pair, two pieces,	.40

Larger sizes from 50 to 75 cents per pair.

RINGS—two sizes: No. 1, for children . . . . .	per pair, \$0.75
No. 2, for youths and adults . . . . .	“ .75
WANDS—in required lengths, nicely turned . . . . .	each .30
Manual of Calisthenics, illustrated, Watson . . . . .	1.25
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The New Calisthenics, by Mara L. Pratt, M.D. . . . .	1.25
Suggestions for Gymnastic Exercises for Schools, Helen C. Swazey . . . . .	.15

## THE PERFECT SLATE RULER,

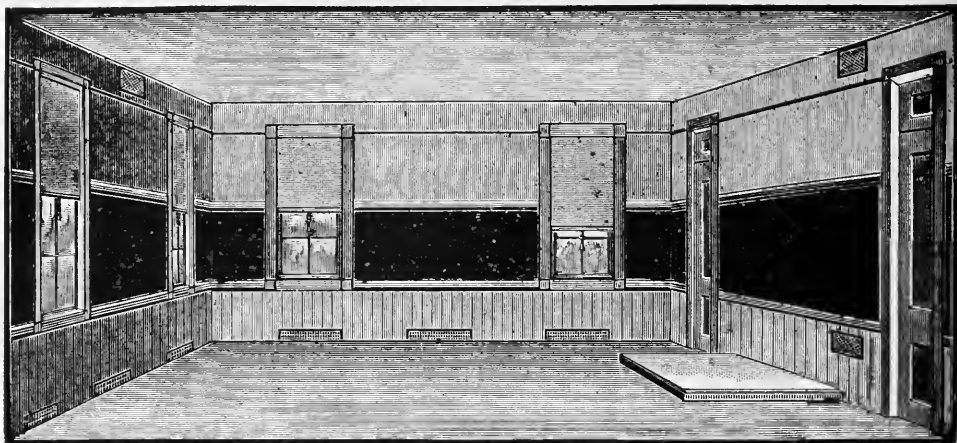


Represented by the cut on the left, is the best apparatus for ruling slates ever offered to the public. It can be adjusted to rule a slate of any size from 5 x 7 to 8 x 12, and the ruling of the entire slate is done by one stroke of the machine.

So much work in Primary Schools is now done on ruled

slates, that a machine for ruling becomes a necessity in every schoolhouse. The lines on ruled slates soon become dim from use, and with this machine they can be reruled as many times as desired. Ten or twelve dozen can be easily ruled in an hour by the janitor or one of the older pupils. Price, \$10.00.

The most substantial and durable Blackboards in existence.  
The most perfect in quality, color, and finish.



The fine appearance of a schoolroom when finished with Real Slate Blackboards is shown in the above cut.

## Real Stone Slate Blackboards.

Why not have **Blackboards** made so they will last as long as the building stands, and **never need repair**? Why continue to use preparations of plastering, putty, and paint, which are constantly cracking and peeling, and always needing repair.

### Facts for the Guidance of Boards of Education, School Officers and Superintendents in the Selection of Real Stone Slate Blackboards.

In the furnishing of school buildings with Real Stone Slate for Blackboards, great care should be exercised in selecting none but the **BEST QUALITY** of uniform dark, un-fading color. There is a great difference in the quality of slate.

Durable slate Blackboards cannot be made from soft slate, which is only adapted to school slates. The best material is from hard beds of slate of dark color, without ribbon, which will not fade, discolor, or decompose.

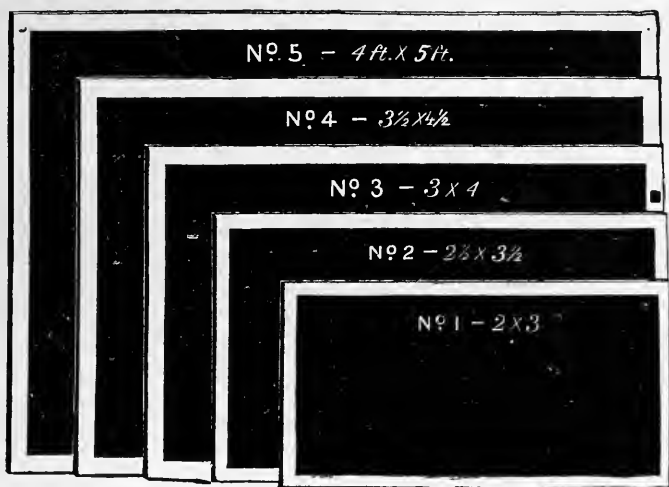
The most important qualities of a good Blackboard are **DURABILITY, PROPER COLOR, AND THE ABSENCE OF REFLECTED LIGHT**, and the only material that meets all these requirements is **NATURAL SLATE STONE**. When properly fitted to the walls of a school-room, it will last as long as any other part of the building; there is no wear out to it, **CONSTANT USE ONLY IMPROVING IT**. Slate Blackboards have a **DEAD BLACK COLOR**, peculiar to themselves, which is pleasant to the eye, and work done upon them can be **SEEN FROM ANY ANGLE**, it being impossible to cause a gloss whereby light will be reflected.

The surface of our Blackboards is **UNIFORM AND SMOOTH**. They are all "Extra Hand Rubbed," and brought to a **PERFECTLY SMOOTH FINISH**, so that a clear, white line can be made with the smallest amount of crayon used. **THIS IS AN IMPORTANT FEATURE, AND ONE FREQUENTLY OVERLOOKED BY MANUFACTURERS AND PURCHASERS**. A simple flat piece of slate is not a Blackboard until made so by careful finishing.

When once in position, they are **ABSOLUTELY FREE FROM INJURY OR DAMAGE**. If a new house is to be built, or any changes made, they can be taken down and put up without injury.

# BLACKBOARDS AND SUPPORTS.

READY-MADE STANDARD SIZES.  
PERFECT SLATE SURFACE.



IN NEAT ASH FRAMES. ANY SIZE  
MADE TO ORDER.

## PRICE OF BLACKBOARDS.

No. 1, size 2 x 3 feet, finished on both sides	. \$3.00
" 2, " 2½ x 3½ " " " "	. 5.25
" 3, " 3 x 4 " " " "	. 7.00
" 4, " 3½ x 4½ " " " "	. 9.50
" 5, " 4 x 5 " " " "	. 12.00
" 6, " 3 x 6 " " " "	. 10.50

They are so framed that they are free to shrink or swell without possibility of splitting or warping.

Roll Blackboards of Cloth, 2 x 3 feet	. \$1.00
" " " " 2½ x 3½ feet	. 1.50
" " " " 3 x 4 feet	. 2.00

Blackboard Cloth four feet wide, coated both sides,  
\$2.00 per yard.

Blackboard Cloth three feet wide, coated one side,  
\$1.25 per yard.

Large Easels, \$2.00

Smaller Easels, 1.50

## Hammond's Blackboard Support.

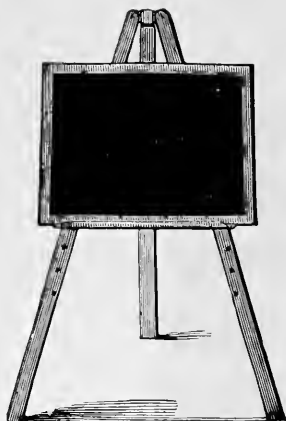
All the parts are firmly bolted together, and are taken apart for shipping.

The board revolves, thus making both sides available without moving the stand.

**PRICE, To fit any of the standard sizes, \$5.00**



## TOY BLACKBOARDS.



No. 1 Size, 16 x 22 inches, finished both sides . . . . .	\$ .85
No. 2 Size, 22 x 26 inches, finished both sides, with Chalk Shelf . . . . .	1.50
No. 3 Size, 24 x 36 inches, finished both sides, with Chalk Shelf . . . . .	2.25
Toy Easel for either above sizes . . . . .	.75
Large Easel for either above sizes . . . . .	1.50
Toy Box White Crayon . . . . .	.10
Toy Box Assorted Colored Crayon . . . . .	.25
Small Gem Eraser . . . . .	.10

## CRAYONS.

Parmenter's White Crayon, Parmenter's Enamel Crayon, Parmenter's Colored Crayon, Parmenter's Square Crayons, for Lecturer's use, always in stock, and furnished at lowest market rates.

National Dustless Crayon, very durable . . . . .	\$ .50 per gross.
Talc Crayon, last almost forever . . . . .	2.50 per gross.

## BLACKBOARD ERASERS.

MADE OF THE BEST WILTON CARPET.

Gem, size, $2\frac{1}{2}$ x 6 inches . . . . .	\$ .75 per doz.
Small Gem, size, 2 x 5 inches . . . . .	.65 per doz.
Large Gem, size, 2 x 7 inches . . . . .	1.00 per doz.
Best Quality Lamb's Wool Erasers . . . . .	2.00 per doz.

These erasers are all made in our own shop, and the greatest care is taken to have them so made as to wear well, and with no sharp corners to injure the Blackboards.

Pointers, Blackboard Dividers, Blackboard Triangles; All Blackboard Supplies.



Black japanned, red, blue, and green, with paper wrapper.

## REPAIRS.

We also make a **Specialty** of repairing Blackboards with **Liquid Slating, Slated Cloth or Tag Board.**

The attention of all persons building or repairing Schoolhouses is respectfully called to the following facts: If you have old plastering or wooden boards that you wish repaired or reslated; if you wish for Portable or Revolving Boards of wood or crystal; if you wish for Liquid Slating with which to do your own repairing; or if you wish the Natural Stone Slate, or Crystal,—you can have your work done in the best possible manner, and at the most reasonable rates, by one who has manufactured blackboards for over twenty years, and who also guarantees that all work shall be of the best quality.

N. B.—Blackboard Repairing in all its branches promptly attended to.

## The Patent Crystal Blackboard.

It has the best surface ever offered for a Blackboard; it grows better by use, and will not wear out. It has no coating on the surface; hence will never need repair. It can be rendered perfectly dustless by the use of a damp eraser, as water does not injure it, even when constantly applied.

No. 1	Crystal Blackboard,	42 x 60 inches	.	.	.	\$8.00
" 2	"	" 31 x 40	"	.	.	4.50
" 3	"	" 22 x 40	"	.	.	3.75
" 4	"	" 21 x 30	"	.	.	2.50

Chalk Shelf, 50 cents extra.

Crystal Blackboard in Sheets ready to place for Permanent Wallboards, 40 cents per square foot.

## Improved Liquid Slating.

PRODUCES A PERFECT SLATE SURFACE WHICH WILL NOT GLAZE.

It makes a smooth and durable surface when applied to plaster, hard finish, paper, boards, old blackboards or walls.

Put up in tin cans with full directions for applying, and can be shipped to any part of the country.

A gallon is sufficient for 300 square feet, giving it three coats.

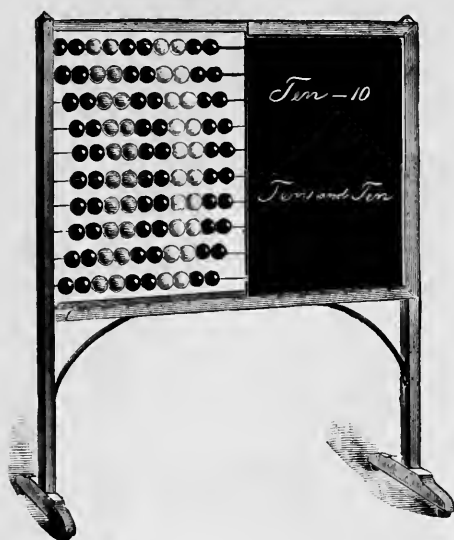
**Prices: Pints, \$1.25; Quarts, \$2.00; Half-gallons, \$4.00; Gallons, \$7.00.**

Brushes 5 inches wide for applying the Slating	.	.	\$1.00
Double Thick Brushes	.	.	1.50
Six-inch Double Thick Brushes	.	.	2.50



### DESK NUMERAL FRAME.

This frame is adapted to the ordinary primary desk, which is eighteen inches long. A heavy wire is stretched between two japanned iron supports, which are fastened to the desk at the extreme front, out of the way of all other school exercises, but within easy reach of the child. We send simple directions with each order, so that any one with an awl and screw-driver can put the frames in place. Price, each, \$0.20; postage, \$0.14



## COMBINATION NUMERAL FRAME AND BLACKBOARD.

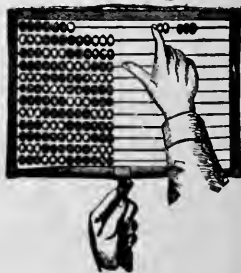
Size, 36 x 57 inches, 68 inches high. Balls, five colors, 2 inches in diameter. The balls can all be concealed behind the Board, and presented to the pupil in such numbers, from one to one hundred, as the teacher desires to have under consideration at the time. Price, \$20.00.

### HAND NUMERAL FRAMES

With 100 Balls, 60 cents.

### HAND NUMERAL FRAMES

With 144 Balls, 75 cents.



### COLOR AND FORM COUNTER.

For the Instruction  
and Amusement of  
Children.



Price, 15 cents.  
(Patented March 6, 1888.)

Designed especially for the use of pupils during their first and second years in school.

Among the most DESIRABLE, DURABLE and COMFORTABLE CHAIRS for the Platform and for Public Offices are the following. Prices furnished on application.



No. 357. NEW YORK OFFICE,  
Wood Seat.



No. 208. OLD COLONY OFFICE,  
Wood Seat.



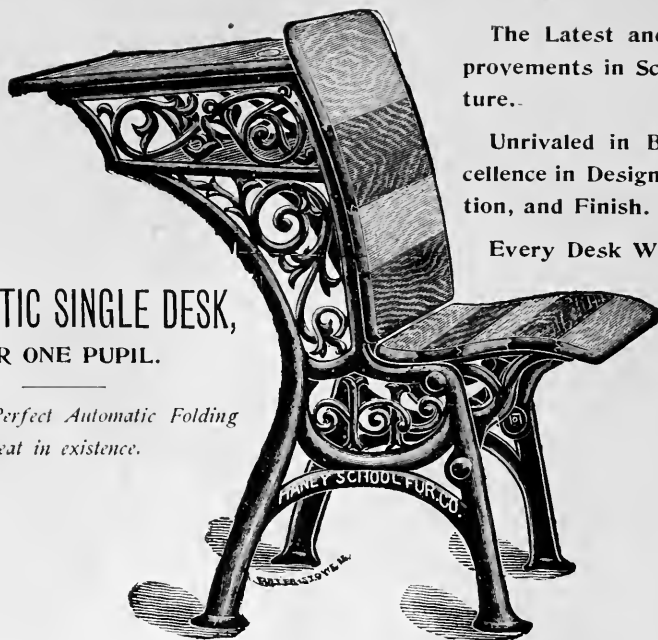
No. 30 R. DOUGLASS OFFICE,  
Wood Seat, Iron Rods.



No. 66 R. WASHBURN DINING,  
Iron Rods.

## AUTOMATIC SINGLE DESK, FOR ONE PUPIL.

*The Most Perfect Automatic Folding  
Seat in existence.*



The Latest and Best Improvements in School Furniture.

Unrivalled in Beauty, Excellence in Design, Construction, and Finish.

Every Desk Warranted.

### Single Seat and Desk for One Pupil.

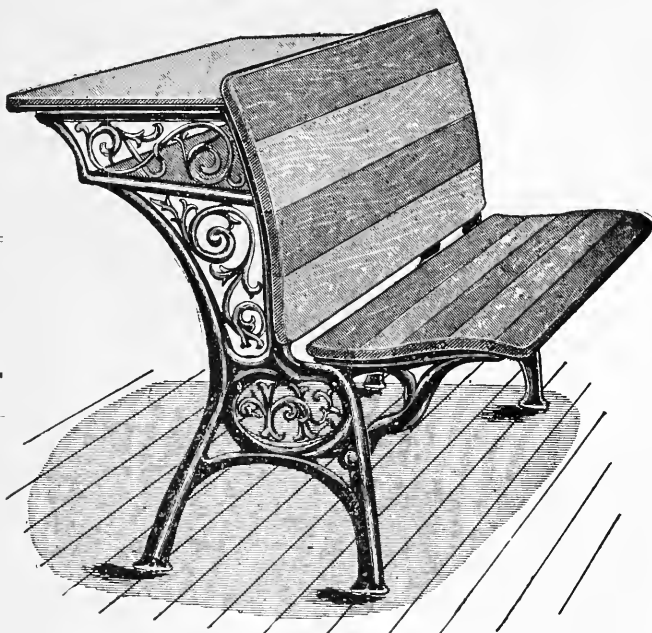
No.	Length.	Height of Seat from floor.	Width of Top.	Height of Top of Desk from floor.	Distance of Desks apart measuring from back to back.	Age of Pupil occupying Seat.
1	24 inch.	16 inch.	15 inch.	30 inch.	28 inch.	16 to 21
2	24 "	15 "	15 "	29 "	28 "	14 to 18
3	21 "	14 "	13 "	27 "	25 "	11 to 15
4	21 "	13 "	13 "	26 "	25 "	9 to 13
5	18 "	12 "	11 "	24 "	22 "	7 to 10
6	18 "	11 "	11 "	23 "	22 "	5 to 8

### Double Seat and Desk for Two Pupils.

No.	Length.	Height of Seat from floor.	Width of Top.	Height of Top of Desk from floor.	Distance of Desks apart measuring from back to back.	Age of Pupil occupying Seat.
1	45 inch.	16 inch.	15 inch.	30 inch.	28 inch.	16 to 21
2	45 "	15 "	15 "	29 "	28 "	14 to 18
3	39 "	14 "	13 "	27 "	25 "	11 to 15
4	39 "	13 "	13 "	26 "	25 "	9 to 13
5	33 "	12 "	11 "	24 "	22 "	7 to 10
6	33 "	11 "	11 "	23 "	22 "	5 to 8



Our No. 1 and 2 Double Desk is 45 inches long, or 4 inches longer than those made by other factories. This gives each student sufficient room to write without interruption. Don't buy a 40 or 41 inch Double Desk. All our Desks have our renowned Automatic Seat Fold, and are constructed with a view to comfort, durability and convenience.

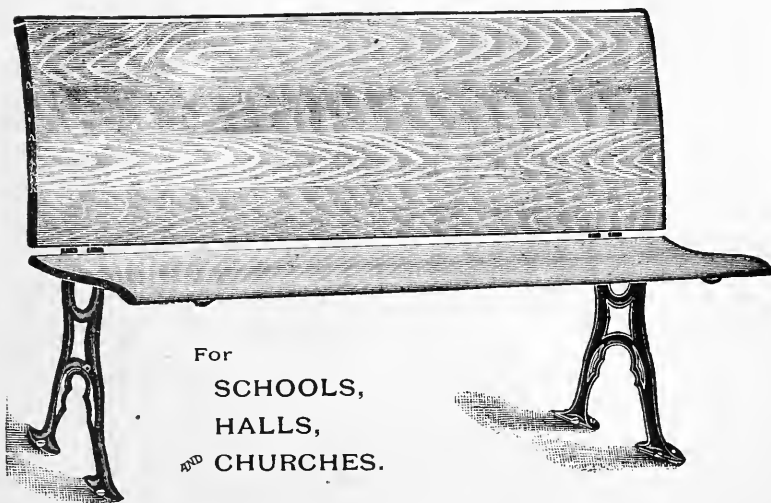


### AUTOMATIC DOUBLE DESK.

(FOR TWO PUPILS.)

ALL OUR  
DESKS ARE  
WARRANTED.

FOR SIZES AND  
DIMENSIONS  
SEE PAGE 78.



For  
SCHOOLS,  
HALLS,  
AND CHURCHES.

### A STRONG AND COMFORTABLE SEAT.

It is Handsomely Finished and made to Fold.



This Desk is made in two sizes, has a very roomy box for books, with a seat and back more comfortable and conducive to health than any school chair ever made.

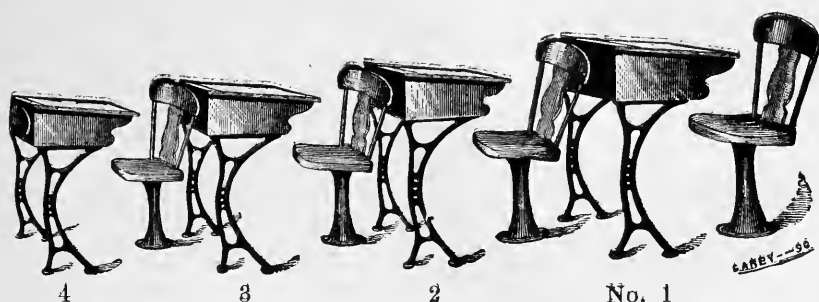
## Students' Chair,

With   
Writing Attachment.

This chair has proved a great convenience in class rooms where written examinations are required, and also for taking notes in lecture rooms.

Price, per dozen, \$27.00.





## Guide to Grades and Sizes of Single Seats and Desks.

	No.	Height of Desk.	Height of Chair.	Size of Top.	Age of Scholars.
Normal Lid,	0	$30\frac{1}{4}$	$17\frac{1}{4}$	20 x 26	Normal
Grammar,	1	$29\frac{3}{4}$	17	16 x 24	Adults
"	2	$28\frac{1}{4}$	$15\frac{3}{4}$	16 x 24	14 to 18
"	3	$26\frac{1}{2}$	$14\frac{1}{2}$	15 x 24	12 to 16
"	4	$24\frac{3}{4}$	$13\frac{1}{4}$	15 x 24	10 to 14
Intermed.,	3	$26\frac{1}{2}$	$14\frac{1}{2}$	13 x 21	12 to 16
"	4	$24\frac{3}{4}$	$13\frac{1}{4}$	13 x 21	10 to 14
"	5	23	12	13 x 21	8 to 12
"	6	$21\frac{1}{4}$	11	13 x 21	6 to 10
Primary,	4	$24\frac{3}{4}$	$13\frac{1}{4}$	12 x 18	10 to 14
"	5	23	12	12 x 18	8 to 12
"	6	$21\frac{1}{4}$	11	12 x 18	6 to 10
"	7	$20\frac{1}{2}$	$10\frac{1}{4}$	12 x 18	5 to 6

**Double Seats and Desks.** } Size of Primary Desks, 12 x 36  
 } Size of Intermediate Desks, 13 x 39  
 } Size of Grammar Desks, 15 x 42



**BOSTON GIRLS'  
HIGH AND NORMAL SCHOOL DESK.**

This cut represents the desk furnished the Boston Girls' High and Normal School, 1870, which is for convenience and durability pronounced the best now in use in the country. It has a lid to lift, and furnishes within ample space for books and other study apparatus.



*The Handsomest, Strongest  
and Best  
ADJUSTABLE DESK  
in the Market.*

*Best Brands of Iron,  
Japanned Castings.*

*Thoroughly Seasoned and  
Kiln-dried Lumber.*

*Red Birch, Cherry, Plain and  
Quartered Oak.*

*We also furnish Castings  
without Woodwork, Desks  
without Chairs, and vice  
versa.*

Our System of Scales  
for height of pupil, desk  
and seat is based upon  
the measurements of  
over 125,000 children. It  
embodies the recom-  
mendations of the

*Vienna, Frankfort,  
Prague, and  
St. Petersburg*

*SCHOOL DESK  
COMMISSIONS.*

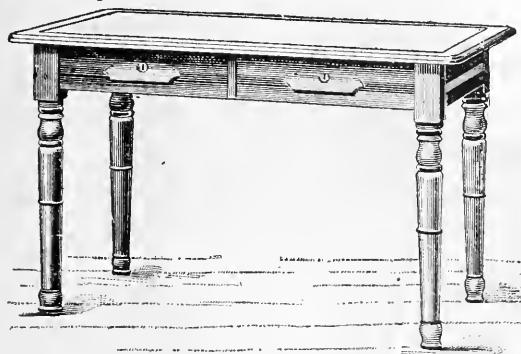
The best authorities of  
this country have been  
consulted, and their recom-  
mendations have  
been adopted.



The lid of the desk is bound on its sides, to prevent warping. It has counter-sunk brass hinges, a pencil tray in the desk, a lid supporter, and rubber buffers, making it noiseless when dropped.

We also manufacture a special lid desk, size 16 x 21 inches, which may be used with the No. 1, No. 2, or No. 3 castings.

Made of solid, kiln-dried Walnut, Cherry or Oak. Enamel cloth or imitation leather top. Smooth, rubbed-down finish.



No. 7.

**OFFICE TABLE.**

Made 3, 3 1-2, 4, 4 1-2, 5,  
and 6 feet in length.

Prices given on application.



**FINISHED ON BACK SIDE.**

Has five drawers and  
makes a first-class desk.

Can be made to order  
48 inches long at an ad-  
ditional cost of \$1.00.

**No. 1 DESK.**

42 in. long, 26 in. wide.

**NO 2. DESK.**

48 in. long, 27 in. wide.

Finished on Back Side.

Has one Centre and  
Seven Side Drawers,  
one of them double  
usual depth for books,  
or can be made with  
door at same price.



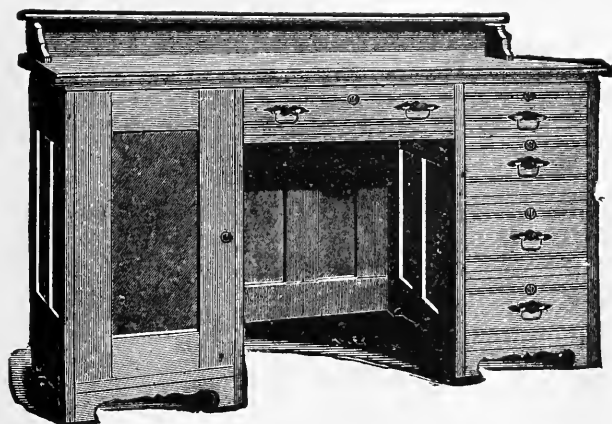
### No. 77. TEACHER'S DESK.

Size, 42 inches long, 27 inches deep. Oak, Walnut, and Cherry. Made full paneled side and back, with rail on top. Polish finish. All drawers lock. This makes the best teacher's desk offered for the price.

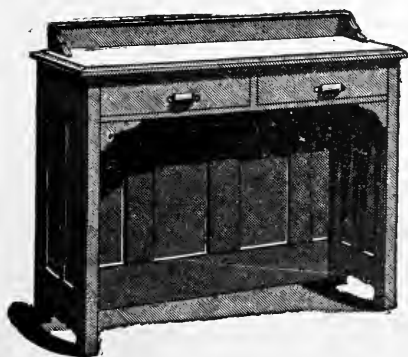


### No. 78. TEACHER'S DESK.

Size, 48 inches long, 27 inches wide. Oak, Walnut, and Cherry. Made full paneled back with rail on top. Thoroughly kiln-dried stock; nice polish finish. All drawers lock. Deep book drawer. Imitation leather or enamel cloth top. Also made polished wood top; covered with billiard cloth at extra cost of 75 cents.

**TEACHER'S DESK, No. 5.**

Size of top, 54 x 26 inches; covered with fine Enameled Cloth; closed ends and sides; five drawers and door; nicely paneled; made of Oak; well finished.

**No. 3.****No. 4.****TEACHER'S DESK, No. 3.**

Size of top, 42 x 26 inches; covered with fine Enamel Cloth; closed ends and sides; two drawers; nicely paneled; made of Oak; well finished.

**TEACHER'S DESK, No. 4.**

Size of top, 46 x 26 inches; covered with fine Enameled Cloth; closed ends and sides; two drawers and door; nicely paneled; made of Oak; well finished.

THE WINCHESTER SCHOOL DESK AND CHAIR.  
Seven Sizes. See page 80.



Rotary and Spring Office Chair.

A NEW LINE OF HAND BELLS.

Cut A represents a line of Swiss Hand Bells made of pure metal, finely polished, and having beautiful Horn Handles. They have a much richer sound than the ordinary hand bell, and are so constructed as to be much more durable.

TINNED.

No. 2.	2½ inches diameter, per doz.	. \$3.00
4.	3¼ " " "	. 4.50
6.	3¾ " " "	. 6.75
8.	4¾ " " "	. 11.25
10.	5¾ " " "	. 19.12
12.	6¾ " " "	. 28.87

NICKEL PLATED.

No. 2.	Per dozen	. . . . . \$4.00
4.	"	. . . . . 6.00
6.	"	. . . . . 9.00
8.	"	. . . . . 15.00
10.	"	. . . . . 25.50
12.	"	. . . . . 38.50

CUT B

REPRESENTS THE

Heaviest, Thickest, Hand Bell Made.

Only Two Sizes.

No. 14.	Per dozen	. . . . . \$24.00
No. 16.	Per dozen	. . . . . 37.50

No. 14.	7½ inches diameter.
No. 16.	8 inches diameter.

These bells are much admired in Turkey and India for their size and weight.

Liberal Discounts from above Prices.



CUT A.



CUT B.

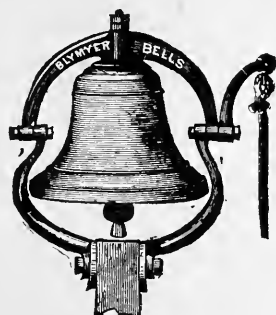




Size Diameter.	Weight of Bell.	Bell and Mountings.	Price.
24 in.	165 lbs.	300 lbs.	\$35.00
26 in.	200 lbs.	350 lbs.	45.00
28 in.	225 lbs.	375 lbs.	55.00

Above prices include bell and mountings (yoke, frame, and wheel), as shown in engraving No. 2. If tolling-hammer is wanted, add \$3.00 to above prices.

Engraving No. 2 represents the Blymyer Bells and mountings, 24-inch, 26-inch, and 28-inch, for Churches, Schools, Factories, Steamboats, etc.



The engravings Nos. 3 and 4 represent the Blymyer Bells from 18 to 24 inches, inclusive. These bells will be furnished with mountings as in No. 3 or No. 4, as may be preferred. The bells will be sent with mountings as in engraving No. 3 unless those in No. 4 are specially ordered.

Size Diameter.	Weight of Bell.	Style 3. Price.	Style 4. Price.
18-inch . . .	75 lbs. . .	\$13.00 . . .	\$13.00 . . .
20-inch . . .	100 lbs. . .	18.00 . . .	18.00 . . .
24-inch . . .	165 lbs. . .	25.00 . . .	25.00 . . .

Above weights do not include mountings.

Prices include bell and mountings as in engravings Nos. 3 or 4.

These bells are cast from a metal—in large part an extra fine quality of steel—used only by the makers, and are entirely different from all other bells. They should be judged on their own merits, and not be confounded with the various kinds of iron, or (so-called) steel-composition, steel-amalgam, and steel-alloy bells.

The Blymyer Bells should be compared in price only with the Copper-and-Tin Bells, for these alone rival them in sweetness and power of tone and durability.



No. 1.

Engraving No. 1 represents the Blymyer Bells and mountings, 30-inch to 54-inch, inclusive, for Churches, Schools, Court-houses, etc.

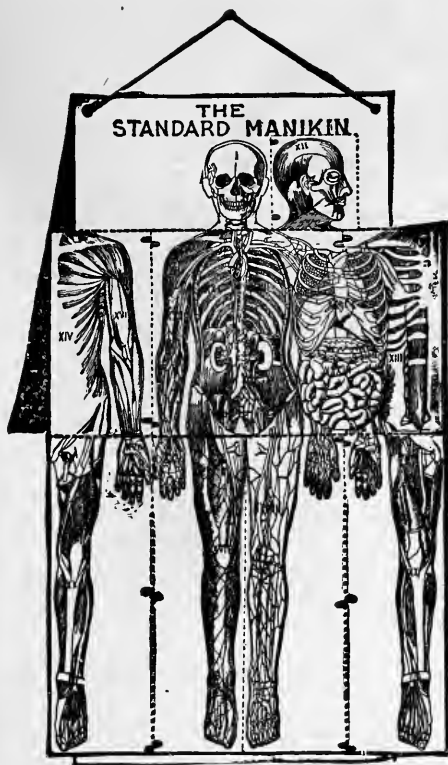
Prices include bell and mountings (yoke, frame, wheel, and tolling-hammer), as shown in engraving No. 1. If tolling-hammer is not wanted, its value will be deducted from price of bell.

Size Diameter.	Weight of Bell.	Bell and Mountings.	Price.
30 inches.	300 lbs.	500 lbs.	\$70.00
32 inches.	375 lbs.	550 lbs.	80.00
34 inches.	450 lbs.	700 lbs.	90.00
36 inches.	525 lbs.	750 lbs.	100.00
38 inches.	650 lbs.	950 lbs.	120.00
40 inches.	800 lbs.	1,100 lbs.	140.00
42 inches.	850 lbs.	1,200 lbs.	160.00
44 inches.	1,000 lbs.	1,400 lbs.	180.00
46 inches.	1,100 lbs.	1,500 lbs.	200.00
48 inches.	1,325 lbs.	1,800 lbs.	230.00
50 inches.	1,600 lbs.	2,200 lbs.	260.00
52 inches.	1,800 lbs.	2,500 lbs.	300.00
54 inches.	2,000 lbs.	2,900 lbs.	350.00

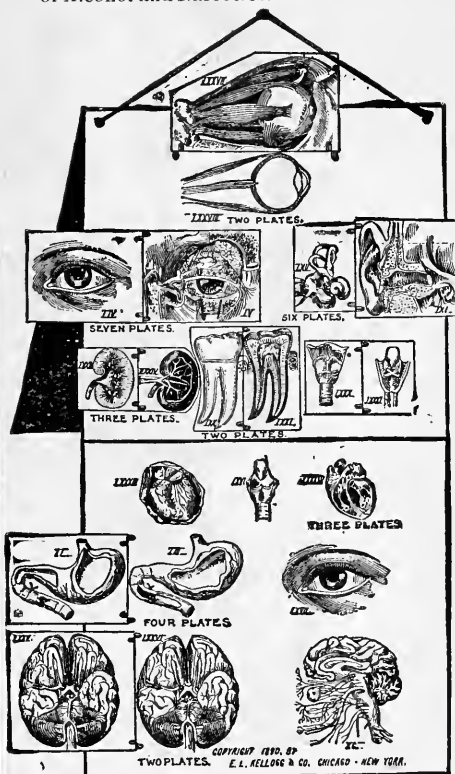
### From the STANDARD, Chicago.

A good bell for our meeting-houses, offered at a price within reach of our less able churches, is a want of great magnitude. The Blymyer Bells meet this demand more fully than anything hitherto offered to the public. In fact, it would seem that these bells are so perfect, and sold at such a moderate price, as fully to meet the want.

**FIRST VIEW.**—Showing Manikin of the entire body, one half life size in its normal condition.



**SECOND VIEW.**—Showing Manikin of important organs, the lower half being devoted to effects of Alcohol and Narcotics.



**ALL THESE SPECIAL MANIKINS INCLUDED.**

Upon the Second Part of our Manikin each Important Organ is dissected by itself.  
It contains:—

**Special Manikin of Eye (Side View).** Two Plates.

**Special Manikin of Eye (Front View).**  
Seven Plates.

**Special Mankin of Ear. Six Plates.**

**Special Manikin of Thorax and Trachea.**  
Three Plates.

**Special Manikin of Tooth. Two Plates.**

**Special Manikin of Kidney. Three Plates.**

**Special Dissection of Heart (Two Views).**

**Special Manikin of Brain (Top View). Two Plates.**

**Special Manikin of Stomach, Affected by Alcohol. Four Plates.**

**Special View of Eye (Alcohol Effect).**

**Special View of Thorax with the Effect of Cigarette Smoking.**

**Special View of Brain and Nerves of Head and face.**

## SPECIAL MANIKINS OF THE EYE.

Side views as well as front views are given, without which a thorough knowledge of this organ is impossible. Special chapters have been prepared upon each of the special Manikins, and will be found in the manual accompanying this Manikin.

**SPECIAL MANIKIN OF THE EAR.**

The ear is shown on an enlarged scale, consisting of an interior view of the middle ear and several dissections of the internal ear.

### SPECIAL MANIKIN OF THE THORAX.

Here we have an entirely new feature. The front view shows all the attachments, size, and general shape. The interior and rear views are given, where is seen the chords and epiglottis. The action of this last as it closes over the channel leading to the lungs, to prevent liquids or solids from entering the cavity, is well illustrated.

### SPECIAL MANIKIN OF THE TOOTH.

On the "Standard" Manikin is shown for the first time a dissection of the tooth. Let teachers no longer neglect to show the importance of the proper care of the teeth.

**PRICE COMPLETE, \$15.00.**

# DIXON'S AMERICAN GRAPHITE PENCILS.



Dixon's Patent Dozen Package.

## FOR OFFICES, SCHOOLS, AND COUNTING-ROOMS.

Round and Hexagon Shape, Regular and Tablet Size.

Dixon's Grade Stamps.			Similar grade to old style.
<b>S</b> —Soft . . . . .	(for heavy shading) . . . . .		No. 1
<b>S B</b> —Soft black . . . . .	(for heavy shading) . . . . .		No. 1½
<b>S M</b> —Soft medium . . . . .	(for pocket and office) . . . . .		No. 2
<b>M B</b> —Medium black . . . . .	(for pocket and mechanical) . . . . .		No. 2½
<b>M</b> —Medium . . . . .	(for memorandum books) . . . . .		No. 3
<b>M H</b> —Medium hard . . . . .	(for drawing classes) . . . . .		No. 3½
<b>H</b> —Hard . . . . .	(for ledgers and outlines) . . . . .		No. 4
<b>V H</b> —Very hard . . . . .	(for finest lines) . . . . .		No. 5

The foregoing styles of Round and Hexagon Gilt, finished in natural cedar, satin and maroon, comprise the assortment of DIXON'S AMERICAN GRAPHITE PENCILS, of the very finest style and quality, known to the trade as "Fine Goods." They are put up in Dixon's Patent Dozen Package, and are packed in half gross boxes.

## DIXON'S "HIGH SCHOOL" PENCILS.

**DIXON'S HIGH SCHOOL SM**

Patent Dozen Package; half gross boxes.

Round Shape, "Satin Finish," Regular Diameter.

Grade Stamps . . .	<b>S</b>	<b>S M</b>	<b>M B</b>	<b>M</b>	<b>M H</b>	<b>H</b>	<b>V H</b>
Trade Nos. . . .	<b>980</b>	<b>981</b>	<b>982</b>	<b>983</b>	<b>984</b>	<b>985</b>	<b>986</b>

Round Shape, "Satin Finish," Tablet Size.

Grade Stamps . . .	<b>S</b>	<b>S M</b>	<b>M B</b>	<b>M</b>	<b>M H</b>	<b>H</b>	<b>V H</b>
Trade Nos. . . .	<b>987</b>	<b>988</b>	<b>989</b>	<b>990</b>	<b>991</b>	<b>992</b>	<b>993</b>

Dixon's "High School" pencils, being of fine quality and carefully graded, have been adopted by many of the leading School Boards. The two sizes make them peculiarly suited for schools.

**DIXON'S SECRETARY**

# DIXON'S AMERICAN GRAPHITE ARTISTS' PENCILS. 141



Stamped in gold, “ DIXON'S AMERICAN GRAPHITE ARTISTS',”

AND “ARTISTS' PERFECTED GRAPHITE.”

They are made in hexagon shape only, beautifully finished in the natural color of the cedar wood, and are in eleven grades of leads, as follows, viz.:

Trade Nos.	Dixon's Grade Stamps.		Similar grade to the European stamp of
210 . . .	VVS —	Very, very soft . . . . .	(B B B B B)
211 . . .	VS —	Very soft . . . . .	(B B)
212 . . .	S —	Soft . . . . .	(B)
213 . . .	SM —	Soft medium . . . . .	(H B)
214 . . .	MB —	Medium black . . . . .	(F)
215 . . .	M —	Medium . . . . .	(H)
216 . . .	MH —	Medium hard . . . . .	(H H)
217 . . .	H —	Hard . . . . .	(H H H)
218 . . .	VH —	Very hard . . . . .	(H H H H)
219 . . .	VVH —	Very, very hard . . . . .	(H H H H H)
219½ . . .	VVVH —	Very, very, very hard . . . . .	(H H H H H H)

These leads are extra fine and perfectly graded. The hard grades are perfect for architects, draughtsmen, and engineers, and the softer and medium grades are unequalled for art work. They are indorsed by members of the National Academy of Design, New York; designers, drawing teachers, mechanical engineers, and artists generally. Dixon's patent dozen package, ¼ gross boxes.

## COLORED CRAYON PENCILS.

The uses of colored crayons have multiplied tenfold in ten years; they are now used not only in every drawing class, but also for checking way-bills, invoices, marking newspapers, etc. The color should be vivid; they should mark smoothly and easily, be tough, and wear long with each sharpening. Those stamped “DIXON'S BEST” are made by perfected machinery, are carefully selected, and have a vividness and toughness unapproached by any other make.



Round Shape, Gold Stamp, “Dixon's Best,” Highly Finished.

## DIXON'S SOLID CRAYONS.



Cut shows full Diameter, but reduced Length.

Not covered with wood, but solid round shape leads 5-16 inch in diameter, seven inches long, paper covered. One dozen in neat box, and six boxes in carton.

For railroad or editorial offices these solid crayons are unequalled for quality and convenience.

## RED AND BLUE “TRILATERAL” PENCILS.

Mammoth Size.



This cut shows Shape and full Diameter, but reduced Length.



Ask particular attention to their books containing the best literature for use in all Grades of Schools, and for School Libraries.

## RIVERSIDE LITERATURE SERIES.

Over ninety 15-cent Reading Books, with Introductions, Notes, and Historical and Biographical Sketches; containing in an unabridged form some of the most interesting and instructive masterpieces of the greatest authors of America and England. Regular Single Numbers, paper, 15 cents.

### Some of the Earlier and Later Numbers :

1. LONGFELLOW'S EVANGELINE. (Also bound in linen, 25 cents.)
2. LONGFELLOW'S COURTSHIP OF MILES STANDISH; ELIZABETH. (Also bound in linen, 25 cents.)
3. LONGFELLOW'S COURTSHIP OF MILES STANDISH. Dramatized.
4. WHITTIER'S SNOW-BOUND, AND OTHER POEMS. (Also bound in linen, 25 cts.)
5. WHITTIER'S MABEL MARTIN, AND OTHER POEMS. (Nos. 4 and 5 also bound together in linen, 40 cents.)
6. HOLMES'S GRANDMOTHER'S STORY OF BUNKER HILL BATTLE, ETC.
- 7, 8, 9. HAWTHORNE'S TRUE STORIES FROM NEW ENGLAND HISTORY. 1620-1803. In three parts. (The three parts also bound together in linen, 45 cents.)
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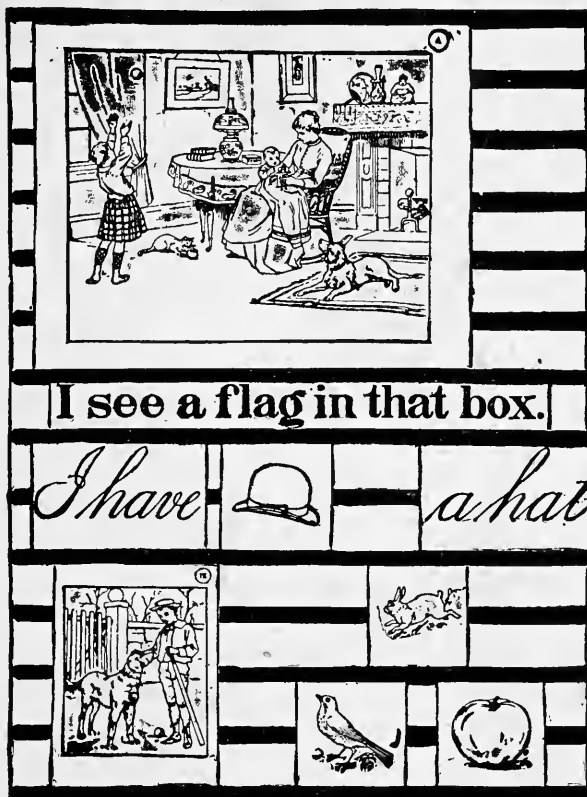
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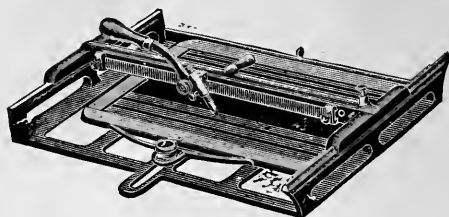
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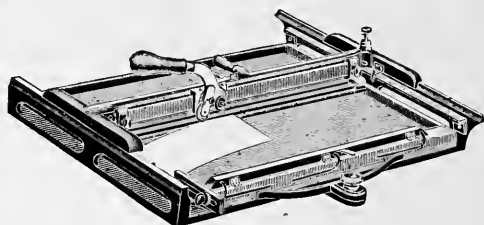


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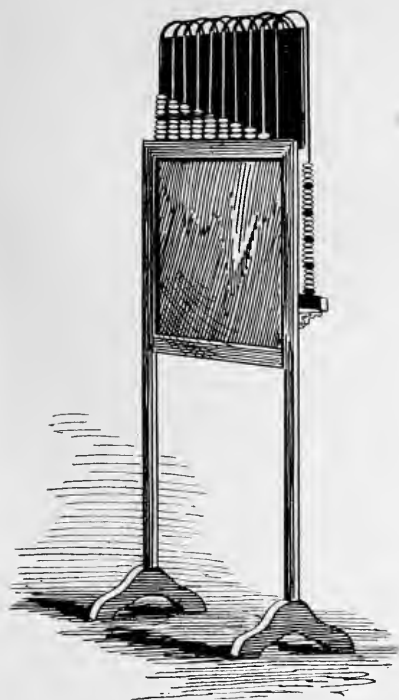
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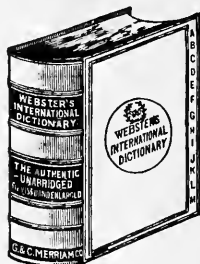
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